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***LEVEL: The L-1.6 program user guide
with databases, examples and Tablex outputs***

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1. LEVEL L-1.6 PROGRAM

The L-1.6 program is designed to deal with the maximum likelihood estimation of the functional form in the generalized single equation regression model in which the functional form of the heteroskedasticity of the residuals, which can be autocorrelated, is also considered.

Box-Cox transformations with fixed or estimated parameters can be applied to the dependent and groups of independent variables, which may be simultaneously modified by a chosen autocorrelation structure in which the autoregressive parameters are estimated, and by a selected functional form of the heteroskedasticity in which different parameters can be either fixed or estimated.

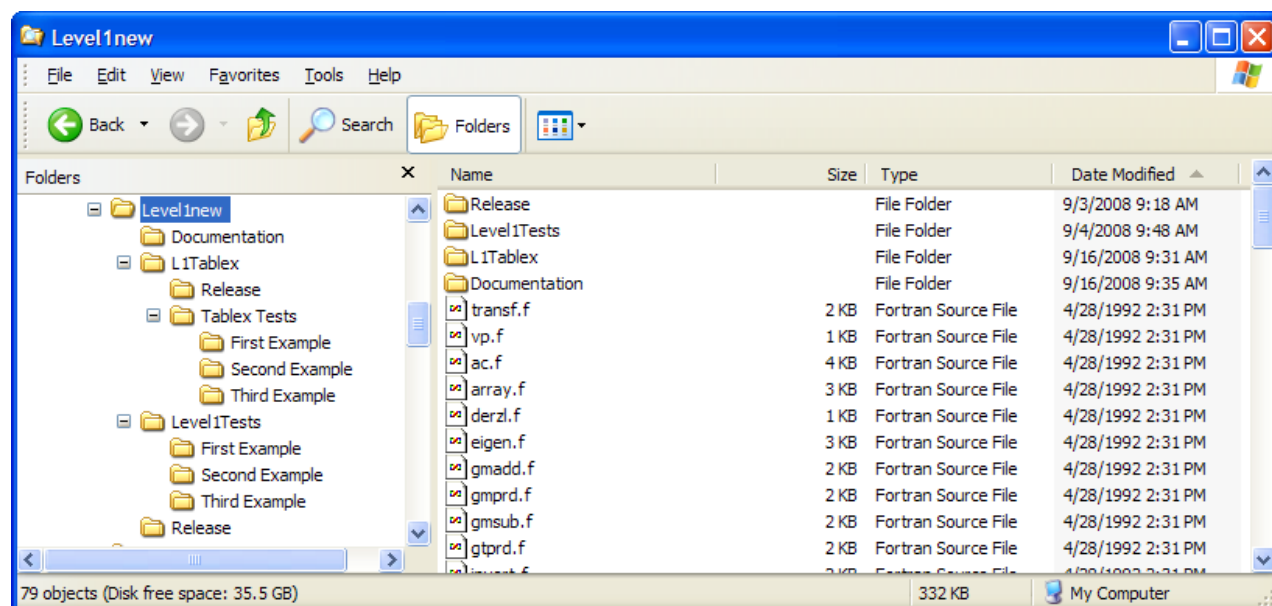
The asymptotic covariance matrix of all the parameter estimates in a regression equation is computed. A number of useful outputs can also be obtained, notably (i) elasticities of the first three moments of the dependent variable (expected value, standard error and skewness), (ii) marginal rates of substitution (and their elasticities) among the moments, and among the independent variables, (iii) as well as forecasts made by simulation and maximum likelihood techniques and their elaborate statistics.

The algorithm used in the maximum likelihood estimation and the different outputs of the L-1.6 program are described in: *Tran, C.L., Gaudry, M. and M. Dagenais, LEVEL: The L-1.6 estimation procedures for BC-GAUHESEQ (Box-Cox Generalized Autoregressive Heteroskedastic Single Equation) regression and multimoment analysis. Publication AJD-105, Agora Jules Dupuit, Université de Montréal, April 2008.*

1.1 Installing Level L-1.6 and Tablex programs

The file *Level1new.zip* which can be downloaded from the website of Agora Jules Dupuit <http://www.e-ajd.net> contains all the folders used in this publication. To install the two programs with their examples of input/output files and the associated databases, unzip *Level1new.zip* to drive d:.

The structure of *d:\Level1new* folder will appear as follows:



In the root folder *d:\Level1new*, all the Fortran files (extension *.f*) and specific files used in the compilation of L-1.6 estimation program with Compaq Visual Fortran 6.6 are stored. Under this folder, there are four subfolders:

- The *Documentation* subfolder contains all the publications cited in the text but not available at the website of Agora Jules Dupuit.
- The *L1Tablex* subfolder includes the specific files used in the compilation of L-1.6 Tablex program with Compaq Visual Fortran 6.6. The compiled file *L1Tablex.exe* is stored in subfolder *L1Tablex\Release*. The *L1Tablex\Tablex Tests* subfolder contains the three Tablex examples with their input/output files.
- The *Level1Tests* subfolder includes the three examples of L-1.6 estimation with their input/output files and associated databases.
- The *Release* subfolder contains the compiled file *level1.exe* of L-1.6 estimation program.

1.2 Input File

The input file for LEVEL L-1.6 program contains four sections: the first and last sections require specific formats, whereas the second and third are in free format.

Section	Input Contents
I	
Control Parameters	_\$CARD1_NOBS= ,NC= ,NF= ,NFP= ,NOBEL= ,NM= ,NSTEP= ,EPSI= ,WGHT= \$ _\$CARD2_NB= ,NRO= ,NSL= ,NGF= ,MAXF= ,NGV= ,MAXV= ,NLY= ,NDM= ,NLE= ,ND= \$ _\$CARD3_NCOR= ,NRES= ,NPW= ,NGUVW= ,NPDQL= ,NCOV= ,NEY= ,VARNAME= , NVARIANT= \$ (The underscore _ indicates a blank and an input value for each parameter must be specified after the equality sign.)
II	
Parameter Values	IDENTIFICATION OF THE RUN (80 characters and First character must be a blank.) (L(I),I=1,NRO),(RO(I),I=1,NRO) (If NRO > 0) (VLXF(I),I=1,NGF),(NXF(I),I=1,NGF) (If NGF > 0) (VLXV(I),I=1,NGV),(NXV(I),I=1,NGV) (If NGV > 0) VLY (if NLY=0 or 1) or NGXY (if NLY=2), ULY (If NLY=0,1,2) (D(I),I=1,ND),(VLE(I),I=1,ND),(NUMX(I),I=1,ND) (If NDM=0,1)
III	
Analysis of Residuals	(NUMG(I),I=1,NGUVW) (If NGUVW > 0) NQM,NYEAR (If NPW=1,2) NDIFF,NDLSEA,LNPER,NLAG,NLAGP (If NPDQL=1,2)
IV	
Data	FILE NAME OF THE DATABASE (80 characters) (IFMT(I),I=1,10) (80 characters) TITREY (max. 8 characters) TITREX(J) (max. 8 characters) (Repeat for J=1,NB+NM variables.)

1.3 Section I : Control Parameters

\$CARD1 ...\$ includes 9 parameters:

NOBS	Total number of observations in the sample.
NC	Index number of the first observation used for estimation.
NF	Index number of the last observation used for estimation ($1 \leq NC < NF \leq NOBS$).
NFP	Index number of the last observation used for forecasting ($NF \leq NFP \leq NOBS$). If NFP = NF, no forecast is desired.
NOBEL	Number of observations used in the last portion of the estimation period for the computation of the

NM	elasticities and derivatives of the dependent variable at the sample means of the variables. Number of exogenous variables Z_m 's included after the group of independent variables X_k 's entered in SECTION IV and used only in the heteroskedasticity function $f(Z_t)$.
NSTEP	Maximum number of steps for the maximization of the log-likelihood function. Usually, NSTEP can be set at least equal to the square of the number of parameters estimated in the concentrated log-likelihood function.
EPSI	Convergence parameter for the concentrated log-likelihood function ($10^{-7} \leq \text{EPSI} \leq 10^{-4}$).
WGHT	Common weight for the changes in the parameter values during the maximization of the concentrated log-likelihood function. Usually, WGHT=1, but other values such as 0.1, 0.01 or 0.001 can be tried if there is a problem of convergence.

\$CARD2 ...\$ includes 11 parameters:

NB	Number of estimated coefficients β_k 's or equivalently number of independent variables X_k 's, excluding the regression constant which is generated in the program. These variables can also be used in $f(Z_t)$ provided that they are strictly positive.
NRO	Number of estimated ρ_ℓ 's.
NSL	Number of X_k 's not transformed by Box-Cox, excluding the regression constant ($0 \leq \text{NSL} \leq 50$).
NGF	Number of X_k 's groups with fixed λ_x -parameters.
MAXF	Maximum number of variables X_k 's among the NGF groups. If NGF=0, MAXF must be set equal to zero.
NGV	Number of X_k 's groups with estimated λ_x -parameters.
MAXV	Maximum number of variables X_k 's among the NGV groups. If NGV=0, MAXV must be set equal to zero.
NLY	Control parameter for λ_y . = -1 No Box-Cox on the dependent variable. = 0 λ_y is fixed during the maximization of the log-likelihood function. = 1 λ_y is estimated. = 2 λ_y is estimated and set equal to one of the λ_x 's of the NGV groups.
NDM	Control parameter for the δ_m 's. = -1 Heteroskedasticity is not considered. The two following parameters, NLE and ND, must be set equal to zero. = 0 The δ_m 's are fixed during the maximization. = 1 The δ_m 's are estimated.
NLE	Control parameter for the λ_{zm} 's. = 0 The λ_{zm} 's are fixed during the maximization. = 1 The λ_{zm} 's are estimated.
ND	Number of variables Z_m 's appearing in $f(Z_t)$. These variables must be strictly positive since they are all transformed by Box-Cox. ND can be greater than NM since some of the NB independent variables X_k 's can also be used in $f(Z_t)$.

\$CARD3 ...\$ includes 8 parameters:

NCOR	= 0 No print of correlation matrices and variance-decomposition proportions. = 1 Print correlation matrix and variance-decomposition proportions in terms of X^{**} and Y^{**} at the maximum point of the log-likelihood function. = 2 Print correlation matrices and variance-decomposition proportions in terms of X and Y, and X^{**} and Y^{**} respectively at the starting point and the maximum point of the log-likelihood function.
NRES	= 0 No print and no plot of residuals w_t. = 1 Print and plot of residuals at the maximum point of the log-likelihood function. = 2 Print and plot of residuals at the starting point and the maximum point of the log-likelihood function.
NPW	= 0 No list of residuals w_t for quarterly or monthly series. = 1 List for quarterly series (4 quarters per output line). = 2 List for monthly series (12 months per output line).
NGUVW	= 0 No plot of a variable X_k or Z_m against the residuals u_t, v_t and w_t. = <i>value</i> Number of variables to be plotted ($NGUVW \leq 10$).
NPDQL	= 0 No print of autocorrelation and partial autocorrelation functions. = 1 Print at the maximum point of the log-likelihood function. = 2 Print at the starting point and the maximum point of the log-likelihood function.
NCOV	= 0 No print of covariance matrix of the estimated parameters at the maximum point of the log-likelihood function. = 1 Print of covariance matrix.
NEY	= 0 Do not write the expected value of Y and its derivatives with respect to X for each observation used in the estimation to a file. = 1 Write the expected value of Y and its derivatives with respect to X for each observation, associated with an estimated variant to a file named after VARNAME and N VARIANT followed by the suffix <i>_E(Y).txt</i>.
VARNAME	Name of the estimated variant (max. 8 characters). Choose a name to help you remember roughly about the Box-Cox (BC) transformations, autocorrelation (AU) or heteroskedasticity (HG). For example, BC3_AUHG indicates that there are three Box-Cox transformations in total among the lambda(y) and lambda(x) either fixed or estimated, and that autocorrelation and heteroskedasticity are considered in the variant estimation.
N VARIANT	Number of the estimated variant (max. 3 digits). The variant number should start at 1 and should be unique.

1.4 Section II : Parameter Values

L	Autocorrelation orders in increasing values associated with the estimated ρ_ℓ 's.
RO	Initial values for the estimated ρ_ℓ 's.
VLXF	Fixed value of the λ_{xk} for each of the NGF groups.
NXF	Number of X_k 's in each of the NGF groups.
VLXV	Initial value of the estimated λ_{xk} for each of the NGV groups.
NXV	Number of X_k 's in each of the NGV groups.
VLY	Fixed value (if NLY=0) or initial value (if NLY=1) of λ_y .
NGXY	Index number of a group of X_k 's such that $\lambda_{xk} = \lambda_y$ (if NLY=2) where both parameters are estimated.
ULY	Upper limit ν (before scaling) for the dependent variable Y in the computation of $E(Y_t)$ if $\lambda_y < 0$. If ULY is set equal to 0, then a default value of ν will be computed in the program.
D	Fixed (if NDM=0) or initial (if NDM=1) values for the δ_m 's.
VLE	Fixed (if NLE=0) or initial (if NLE=1) values for the λ_{zm} 's.
NUMX	Index numbers of the X_k 's or Z_m 's used in the heteroskedasticity function $f(Z_t)$. See SECTION IV for the definition of index numbers.

1.5 Section III : Analysis of Residuals

NUMG	Index numbers of the X_k 's or Z_m 's to be plotted against the residuals. See SECTION IV for the definition of index numbers.
NQM	Quarter index (1,...,4) or month index (1,...,12) associated with the first observation in the sample, e.g. for quarterly data, if the first observation corresponds to the second quarter of a year, then NQM=2.
NYEAR	Civil year (e.g. 1956) associated with the first observation in the sample.
NDIFF	Degree of consecutive differencing ($0 \leq d \leq 3$).
NDLSEA	Degree of seasonal differencing ($0 \leq D \leq 3$).
LNPER	Period of seasonal differencing ($1 \leq s \leq 31$).
NLAG	Maximum lag for autocorrelation function ($\tilde{K} = 12, 24, 36, \dots, 96$).
NLAGP	Maximum lag for partial autocorrelation function ($\tilde{L} = 12, 24, 36 \leq \tilde{K}$).

1.6 Section IV : Data

FILE NAME OF THE DATABASE	The Database contains all the dependent, independent and heteroskedasticity variables for a project.
IFMT	Fortran input format within parentheses for the Name and the Observations of a variable in the Database.
TITREY	Name of the dependent variable Y used in the estimated equation (max. 8 characters)
TITREX	Name of an independent variable X_k or an exogenous variable Z_m , used in the estimated equation (max. 8 characters). Enter one name per line and repeat for NB+NM variables.

Each variable in the Database has the following standard format:

```

Name of the variable (max. 8 characters)
First Observation Second Observation Third Observation Fourth Observation
Fifth Observation ... ..
... ..
... Last Observation

```

Note that the variables can be entered in any order and usually the first variable is the dependent variable to give the user a quick idea of what is used as a dependent variable when opening the Database to take a look.

The Fortran input format (IFMT) used to read each variable in the database should respect the format syntax in Fortran, for example the Fortran format (a8/(5d15.6)) used for the database in the two examples of input files below indicates that eight alphanumeric characters (a8) will be read in for the name of a variable, then go to the next line (indicated by the slash /) to read four observations and continue to the next line to read the next five observations until the last observation is read in. The second portion of the specification (5d15.6) indicates that five observations appear on each line and that the field for each observation is fifteen characters, in double-precision format and with six digits after the decimal point in normalized form.

For the names of the independent variables X_k and the exogenous variables Z_m , TITREX, the user should enter one name per line, in the following order: first the group of NB independent variables X_k 's followed by the group of NM exogenous variables Z_m 's if they appear only in the heteroskedasticity function $f(Z_t)$, but not as independent variables at the same time.

The group of NB independent variables X_k 's should be entered in the following order:

1. The NSL variables which constitute the unique group of variables without Box-Cox;
2. The NGF groups of variables with fixed λ_x -parameters: the first group with fixed λ_1 , the second group with fixed λ_2 , etc.;
3. The NGV groups of variables with estimated λ_x -parameters: the first group with estimated λ_1 , the second group with estimated λ_2 , etc...

Any of the independent variables above can also be specified in $f(Z_t)$ provided that the variable is strictly positive since the variables in $f(Z_t)$ are always transformed by Box-Cox.

The index numbers of the variables X_k 's and Z_m 's are assigned as follows:

1. The first NB index numbers follow the entry order of the NB independent variables X_k 's as defined above;
2. The index number "NB + 1" is reserved for the regression constant which is generated in the program and not included in the Database.
3. The last NM index numbers are counted as "NB + 1 + i" (i = 1, NM) according to the entry order of the variables Z_m 's that appear in $f(Z_t)$ only.

These index numbers are only used as input values for the parameters **NGXY** and **NUMX** in Section II of the input file.

The independent variables can be classified into four categories:

- Category 0: strictly positive variable and not a dummy ($X > 0$).
- Category 1: not strictly positive and not a dummy ($-\infty < X < +\infty$).
- Category 2: quasi-dummy ($X \geq 0$).
- Category 3: real dummy (X has only two values: 0 and a positive constant).

Only Categories 1 and 2 can be transformed by Box-Cox. For Category 2, **if a Box-Cox is applied to the quasi-dummy**, only the positive values of the variable can be transformed by Box-Cox. Hence **it is necessary to create in the database a dummy associated with the quasi-dummy** due to the fact that the null values are not transformed by Box-Cox. The associated dummy has a value of 1 when the quasi-dummy is positive, and a value of 0 when the quasi-dummy is null. The quasi-dummy and its associated dummy should be specified in the regression. For further details, see *Tran, Gaudry and Dagenais (2008)*.

1.7 Running L-1.6 Program

Since L-1.6 program is a DOS-program, it can only be run in a DOS dialog box:

1. Select START/RUN menu and type the command **cmd** to open the DOS dialog box.
2. At the DOS prompt, change to the directory where the input file and the database containing all the variables of a model are located.
3. To run the program, type the command:
d:\level1new\release\level1.exe < input file name > output file name.

An easier way to run the program without the DOS dialog box is to store the command in a batch file (extension .bat) and double-click on this file to execute the command. We will use this method to estimate the variants for the three examples below. For the variant estimation procedures, see *Tran, Gaudry and Dagenais (2008)*.

1.8 First Example of Input File

An example of input file, *variant9.in*, is stored in *d:\Level1new\Level1Tests\First Example* where *d:* is the drive where the program Level 1.6 is installed.

The corresponding batch file is *runlevel1.bat* which contains two lines:

```
d:\level1new\release\level1.exe < variant9.in > variant9.txt
notepad variant9.txt
```

After the estimation of *variant9*, the associated output file named *variant9.txt* will be stored in the same directory. Three additional output files are also created by the L-1.6 program in the same directory:

1. *ADULT9.tab* containing the results of the estimated variant which will be read as input by TABLEX program.
2. *ADULT9_E(Y).txt* containing the expected value of the dependent variable Y and its derivatives with respect to every independent variable X_k for all the observations of the estimation sample if the control parameter NEY specified in Input Section I is equal to 1.
3. *ADULT9_ELA.txt* containing the conditional t -value associated with each β_k and the sample elasticity of Y with respect to X_k evaluated at the sample means, excluding the

regression constant. This file will be used as input to the TABQDF program which combines total and mode choice results of LEVEL L-1.6 and SHARE S1/S5 or PROBABILITY P2/P6 to obtain modal elasticities and diversion rates in the so-called Quasi Direct Format found in *Liem and Gaudry* (1994,1998).

The input file illustrates the estimation of a modified version of equation 2.3 given in Table 3 of *Dagenais, Gaudry and Liem (1987)*. The database is stored in the file *Demtec.in* in the same directory as the input file *variant9.in*. It contains 181 observations (dec 1956 – dec 1971) and includes the dependent variable *xcanfa*, all the independent variables other than the constant: *str* , ... , *ex7* and one heteroskedasticity variable *shonf* which appears only in the heteroskedasticity function $f(Z_t)$. For autocorrelation, the first and twelfth orders are considered. Note that the constant term is always generated in the program and added in the estimated equation. The estimation period runs from *nc=13* to *nf=178* and the last three observations (179-181) are used for forecasting.

Input file: variant9.in

```
$card1 nobs=181,nc=13,nf=178,nfp=181,nobel=12,nm=1,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=27,nro=2,ns1=14,ngf=1,maxf=3,ngv=2,maxv=7,nly=1,ndm=1,nle=1,nd=1$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ncov=0,ney=1,varname='ADULT',nvariant=9$
Variant 2.3 modified, from TRANSP. RESEARCH, B., Vol.21B, No.6, p.467, 1987.
1 12 0. 0.
1. 3
1. 1. 7 3
1. 0.
0. 1. 29
Demtec.in
(a8/(5d15.6))
xcanfa
str
tlk
dumrfk
sfk
csfmr
rcutp
dumex7
ex8
ex9
ex0
ex1
za
ant
antl1
wd
sat
shd
fad
p
nc
tw
tt
t2t
rfk
rawem
eanfp
ex7
shonf
```

The Fortran format (a8/(5d15.6)) for reading the observations in the data file *Demtec.in* is already described in 1.6 Section IV: Data.

1.9 First Example of Output File

The output file is stored in the file *variant9.txt* in the same directory as the input file *variant9.in*. The t-values for the final estimates are reported as follows:

β -coefficients	• Unconditional t-values ($H_0 : \beta_k = 0$) on first line • Conditional t-values ($H_0 : \beta_k = 0$) on second line
Autocorrelation	• Unconditional t-values ($H_0 : \rho_\ell = 0$) on first line • Conditional t-values ($H_0 : \rho_\ell = 0$) on second line
Box-Cox on X_k	All t-values are unconditional. • ($H_0 : \lambda_k = 0$) on first line • ($H_0 : \lambda_k = 1$) on second line
Box-Cox on Y	
Heteroskedasticity δ -coefficients	• Unconditional t-values ($H_0 : \delta_m = 0$) on first line • Conditional t-values ($H_0 : \delta_m = 0$) on second line
Box-Cox on Z_m	All t-values are unconditional. • ($H_0 : \lambda_{zm} = 0$) on first line • ($H_0 : \lambda_{zm} = 1$) on second line
Error variance σ_w^2	
	• Unconditional t-values ($H_0 : \sigma_w^2 = 0$) on first line • Conditional t-values ($H_0 : \sigma_w^2 = 0$) on second line

Output file: variant9.txt

```

&CARD1
NOBS      =      181,
NC         =       13,
NF         =      178,
NFP        =      181,
NOBEL      =       12,
NM         =        1,
NSTEP      =      500,
EPSI       = 1.0000000000000000E-007,
WGHT       = 1.0000000000000000
/
&CARD2
NB         =       27,
NRO        =        2,
NSL        =       14,
NGF        =        1,
MAXF       =        3,
NGV        =        2,
MAXV       =        7,
NLY        =        1,
NDM        =        1,
NLE        =        1,
ND         =        1
/
&CARD3
NCOR       =        0,
NRES       =        0,
NPW        =        0,
NGUVW      =        0,
NPDQL      =        0,

```

```

NCOV      =      0,
NEY       =      1,
VARNAME   = ADULT
NVARIANT  =      9
/

```

Working space used : 15150 out of 500000

```

autocorrelation of orders:      1      12
rho initial values:  0.000000000000000E+000  0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14

```

```

group      1 (fixed lambda(x))
fixed value: 1.000000000000000
variable no.
 15 16 17

```

```

group      1 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
 18 19 20 21 22 23 24

```

```

group      2 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
 25 26 27

```

```

lambda(y) initial value: 1.000000000000000
upper limit for y  0.000000000000000E+000

```

```

Heteroscedasticity
variables: shonf
delta initial values: 0.000000000000000E+000
lambda(z) initial values: 1.000000000000000

```

no.	variable	minimum	mean	maximum	null obs.
	xcanfa	0.94771D+07	0.20334D+08	0.31106D+08	0
1	str	0.00000D+00	0.24309D+00	0.20000D+02	178
2	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
3	dumrfk	0.00000D+00	0.98895D+00	0.10000D+01	2
4	sfk	0.00000D+00	0.26059D+01	0.17965D+02	85
5	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
6	rcutp	0.00000D+00	0.22657D+05	0.70227D+05	9
7	dumex7	0.00000D+00	0.38674D-01	0.10000D+01	174
8	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
9	ex9	0.00000D+00	0.13137D+05	0.88493D+06	177
10	ex0	0.00000D+00	0.11371D+05	0.68509D+06	177
11	ex1	0.00000D+00	0.10163D+05	0.67270D+06	177
12	za	0.00000D+00	0.48323D-01	0.97975D-01	73
13	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
14	antl1	0.00000D+00	0.55249D-02	0.10000D+01	180
15	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
16	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
17	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
18	fad	0.12012D+00	0.16347D+00	0.23153D+00	0
19	p	0.12030D+03	0.13936D+03	0.16661D+03	0
20	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
21	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
22	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
23	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
24	rfk	0.00000D+00	0.71459D+00	0.20581D+01	2
25	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
26	eanfp	0.56603D+08	0.12411D+09	0.14653D+09	0
27	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
28	constant	0.10000D+01	0.10000D+01	0.10000D+01	0
29	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)	COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
						y(sample)	E(y)	y(sample)	E(y)
							SIGMA (y)		SIGMA (y)
	type	group					GAMMA (y)		GAMMA (y)
1 str	NL	0	-0.7745662D+06	0.2650602D+00	0.2779449D+05	-27.8676	-first obs 13 -last obs 178 -0.0101	0.0000	0.0000
2 tlk	NL	0	-0.1004166D+04	0.1931928D+03	0.7061587D+03	-1.4220	-0.0096	-0.0106	-0.0107
3 dumrfk	NL	0	-0.6933043D+06	0.9879518D+00	0.4655804D+06	-1.4891	-0.0339	-0.0366	-0.0368
4 sfk	NL	0	0.1766381D+05	0.2659355D+01	0.2293405D+05	0.7702	0.0023	0.0039	0.0039

									0.0000		0.0000
									0.0070		0.0118
5	csfmr	NL	0	0.1016061D+05	0.2512711D+02	0.2557746D+04	3.9725	0.0126	0.0126	0.0189	0.0190
									0.0000		0.0000
									0.0379		0.0571
6	rcutp	NL	0	0.1514263D+02	0.2281015D+05	0.4921561D+01	3.0768	0.0171	0.0171	0.0342	0.0345
									0.0000		0.0000
									0.0512		0.1035
7	dumex7	NL	0	0.1697598D+07	0.4216867D-01	0.6109137D+06	2.7788	0.0035	0.0035	0.0000	0.0000
									0.0000		0.0000
									0.0106		0.0000
8	ex8	NL	0	0.2296102D+01	0.2481692D+05	0.4142807D+00	5.5424	0.0028	0.0028	0.0000	0.0000
									0.0000		0.0000
									0.0085		0.0000
9	ex9	NL	0	0.1610413D+01	0.1432379D+05	0.5794407D+00	2.7793	0.0011	0.0011	0.0000	0.0000
									0.0000		0.0000
									0.0034		0.0000
10	ex0	NL	0	0.1547172D+01	0.1239816D+05	0.6888776D+00	2.2459	0.0009	0.0009	0.0000	0.0000
									0.0000		0.0000
									0.0028		0.0000
11	ex1	NL	0	0.2138037D+01	0.1108173D+05	0.8117619D+00	2.6338	0.0012	0.0012	0.0173	0.0174
									0.0000		0.0000
									0.0035		0.0523
12	za	NL	0	0.3775804D+07	0.4750768D-01	0.3041278D+07	1.2415	0.0089	0.0089	0.0000	0.0000
									0.0000		0.0000
									0.0266		0.0000
13	ant	NL	0	-0.7883417D+06	0.6024096D-02	0.6328945D+06	-1.2456	-0.0002	-0.0002	0.0000	0.0000
									0.0000		0.0000
									-0.0007		0.0000
14	ant11	NL	0	0.8230751D+06	0.6024096D-02	0.6274305D+06	1.3118	0.0002	0.0002	0.0000	0.0000
									0.0000		0.0000
									0.0007		0.0000
15	wd	FL	1	0.6435117D+06	0.2082530D+02	0.6941597D+05	9.2704	0.6623	0.6623	0.7068	0.7120
									0.0005		0.0005
									1.9882		2.1380
16	sat	FL	1	0.4172408D+06	0.4343373D+01	0.1169131D+06	3.5688	0.0896	0.0896	0.0953	0.0960
									0.0001		0.0001
									0.2689		0.2883
17	shd	FL	1	0.5676458D+06	0.5265060D+01	0.8173760D+05	6.9447	0.1477	0.1477	0.1571	0.1583
									0.0001		0.0001
									0.4434		0.4753
18	fad	EL	1	-0.1607008D+08	0.1652918D+00	0.5886511D+07	-2.7300	-0.1313	-0.1313	-0.1890	-0.1904
									-0.0001		-0.0001
									-0.3941		-0.5718
19	p	EL	1	0.3495391D+05	0.1401902D+03	0.6232585D+05	0.5608	0.2422	0.2422	0.2991	0.3013
									0.0002		0.0002
									0.7270		0.9048
20	nc	EL	1	-0.6088680D+01	0.3110136D+06	0.9221649D+01	-0.6603	-0.0936	-0.0936	-0.1470	-0.1481
									-0.0001		-0.0001
									-0.2809		-0.4446
21	tw	EL	1	-0.1642548D+07	0.4003221D+01	0.3734886D+06	-4.3979	-0.3250	-0.3250	-0.4261	-0.4293
									-0.0003		-0.0003
									-0.9755		-1.2890
22	tt	EL	1	-0.3780026D+06	0.2143780D+02	0.5899151D+05	-6.4077	-0.4005	-0.4005	-0.3803	-0.3830
									-0.0003		-0.0003
									-1.2022		-1.1502
23	t2t	EL	1	-0.4881477D+06	0.9928415D+01	0.2148732D+06	-2.2718	-0.2395	-0.2395	-0.2970	-0.2991
									-0.0002		-0.0002
									-0.7190		-0.8982
24	rfk	EL	1	-0.3208092D+06	0.7297949D+00	0.1285804D+06	-2.4950	-0.0116	-0.0116	-0.0103	-0.0103
									0.0000		0.0000
									-0.0347		-0.0310
25	rawem	EL	2	0.4534842D+05	0.7928325D+02	0.4183277D+05	1.0840	0.1777	0.1777	0.2356	0.2373
									0.0001		0.0002
									0.5334		0.7125
26	eanfp	EL	2	0.2913842D-01	0.1235222D+09	0.3910008D-02	7.4523	0.1779	0.1779	0.1791	0.1804
									0.0001		0.0001
									0.5340		0.5417
27	ex7	EL	2	0.2110816D+01	0.1101423D+06	0.1904349D+00	11.0842	0.0115	0.0115	0.0000	0.0000
									0.0000		0.0000
									0.0345		0.0000
28	constant	NL	0	-0.3114455D+07	0.1000000D+01	0.1018161D+08	-0.3059	-0.1539	-0.1539	-0.1642	-0.1654
									-0.0001		-0.0001
									-0.4621		-0.4967

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 str	-0.7745662D+06	-0.7745657D+06	-0.1662940D+02	0.3452446D-02
2 tlk	-0.1004166D+04	-0.1004165D+04	-0.2155874D-01	0.4475832D-05
3 dumrfk	-0.6933043D+06	-0.6933039D+06	-0.1488476D+02	0.3090241D-02
4 sfk	0.1766381D+05	0.1766380D+05	0.3792297D+00	-0.7873228D-04
5 csfmr	0.1016061D+05	0.1016060D+05	0.2181412D+00	-0.4528852D-04
6 rcutp	0.1514263D+02	0.1514262D+02	0.3251017D-03	-0.6749470D-07
7 dumex7	0.1697598D+07	0.1697597D+07	0.3644625D+02	-0.7566644D-02

8	ex8	0.2296102D+01	0.2296100D+01	0.4929571D-04	-0.1023433D-07
9	ex9	0.1610413D+01	0.1610412D+01	0.3457444D-04	-0.7178035D-08
10	ex0	0.1547172D+01	0.1547171D+01	0.3321671D-04	-0.6896156D-08
11	ex1	0.2138037D+01	0.2138036D+01	0.4590218D-04	-0.9529798D-08
12	za	0.3775804D+07	0.3775801D+07	0.8106388D+02	-0.1682976D-01
13	ant	-0.7883417D+06	-0.7883413D+06	-0.1692515D+02	0.3513848D-02
14	ant11	0.8230751D+06	0.8230746D+06	0.1767085D+02	-0.3668664D-02
15	wd	0.6435117D+06	0.6435113D+06	0.1381575D+02	-0.2868302D-02
16	sat	0.4172408D+06	0.4172406D+06	0.8957871D+01	-0.1859753D-02
17	shd	0.5676458D+06	0.5676455D+06	0.1218696D+02	-0.2530148D-02
18	fad	-0.1607008D+08	-0.1607007D+08	-0.3450134D+03	0.7162859D-01
19	p	0.3495391D+05	0.3495389D+05	0.7504363D+00	-0.1557989D-03
20	nc	-0.6088680D+01	-0.6088677D+01	-0.1307197D-03	0.2713886D-07
21	tw	-0.1642548D+07	-0.1642547D+07	-0.3526436D+02	0.7321270D-02
22	tt	-0.3780026D+06	-0.3780023D+06	-0.8115453D+01	0.1684857D-02
23	t2t	-0.4881477D+06	-0.4881474D+06	-0.1048019D+02	0.2175803D-02
24	rfk	-0.3208092D+06	-0.3208090D+06	-0.6887551D+01	0.1429932D-02
25	rawem	0.4534842D+05	0.4534839D+05	0.9735990D+00	-0.2021299D-03
26	eanfp	0.2913842D-01	0.2913840D-01	0.6255816D-06	-0.1298776D-09
27	ex7	0.2110816D+01	0.2110815D+01	0.4531776D-04	-0.9408467D-08
28	constant	-0.3114455D+07	-0.3114454D+07	-0.6686520D+02	0.1388195D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.4658D+05	-0.2244D+09
SIGMA(y)	0.2147D-04	0.1000D+01	-0.4817D+04
GAMMA(y)	-0.4457D-08	-0.2076D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1244D+04	0.3331D+00
SIGMA(y)	0.8040D-03	0.1000D+01	0.2678D-03
GAMMA(y)	0.3002D+01	0.3734D+04	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	str	tlk	dumrfk	sfk	csfmr	rcutp	dumex7	ex8	ex9	ex0
str		0.1000D+01	0.1296D-02	0.8951D+00	-0.2280D-01	-0.1312D-01	-0.1955D-04	-0.2192D+01	-0.2964D-05	-0.2079D-05	-0.1997D-05
tlk		0.7714D+03	0.1000D+01	0.6904D+03	-0.1759D+02	-0.1012D+02	-0.1508D-01	-0.1691D+04	-0.2287D-02	-0.1604D-02	-0.1541D-02
dumrfk		0.1117D+01	0.1448D-02	0.1000D+01	-0.2548D-01	-0.1466D-01	-0.2184D-04	-0.2449D+01	-0.3312D-05	-0.2323D-05	-0.2232D-05
sfk		-0.4385D+02	-0.5685D-01	-0.3925D+02	0.1000D+01	0.5752D+00	0.8573D-03	0.9611D+02	0.1300D-03	0.9117D-04	0.8759D-04
csfmr		-0.7623D+02	-0.9883D-01	-0.6823D+02	0.1738D+01	0.1000D+01	0.1490D-02	0.1671D+03	0.2260D-03	0.1585D-03	0.1523D-03
rcutp		-0.5115D+05	-0.6631D+02	-0.4578D+05	0.1166D+04	0.6710D+03	0.1000D+01	0.1121D+06	0.1516D+00	0.1063D+00	0.1022D+00
dumex7		-0.4563D+00	-0.5915D-03	-0.4084D+00	0.1041D-01	0.5985D-02	0.8920D-05	0.1000D+01	0.1353D-05	0.9486D-06	0.9114D-06
ex8		-0.3373D+06	-0.4373D+03	-0.3019D+06	0.7693D+04	0.4425D+04	0.6595D+01	0.7393D+06	0.1000D+01	0.7014D+00	0.6738D+00
ex9		-0.4810D+06	-0.6235D+03	-0.4305D+06	0.1097D+05	0.6309D+04	0.9403D+01	0.1054D+07	0.1426D+01	0.1000D+01	0.9607D+00
ex0		-0.5006D+06	-0.6490D+03	-0.4481D+06	0.1142D+05	0.6567D+04	0.9787D+01	0.1097D+07	0.1484D+01	0.1041D+01	0.1000D+01
ex1		-0.3623D+06	-0.4697D+03	-0.3243D+06	0.8262D+04	0.4752D+04	0.7082D+01	0.7940D+06	0.1074D+01	0.7532D+00	0.7236D+00
za		-0.2051D+00	-0.2659D-03	-0.1836D+00	0.4678D-02	0.2691D-02	0.4010D-05	0.4496D+00	0.6081D-06	0.4265D-06	0.4098D-06

ant	0.9825D+00	0.1274D-02	0.8794D+00	-0.2241D-01	-0.1289D-01	-0.1921D-04	-0.2153D+01	-0.2913D-05	-0.2043D-05	-0.1963D-05
antl1	-0.9411D+00	-0.1220D-02	-0.8423D+00	0.2146D-01	0.1234D-01	0.1840D-04	0.2063D+01	0.2790D-05	0.1957D-05	0.1880D-05
wd	-0.1204D+01	-0.1560D-02	-0.1077D+01	0.2745D-01	0.1579D-01	0.2353D-04	0.2638D+01	0.3568D-05	0.2503D-05	0.2404D-05
sat	-0.1856D+01	-0.2407D-02	-0.1662D+01	0.4233D-01	0.2435D-01	0.3629D-04	0.4069D+01	0.5503D-05	0.3860D-05	0.3708D-05
shd	-0.1365D+01	-0.1769D-02	-0.1221D+01	0.3112D-01	0.1790D-01	0.2668D-04	0.2991D+01	0.4045D-05	0.2837D-05	0.2726D-05
fad	0.4820D-01	0.6249D-04	0.4314D-01	-0.1099D-02	-0.6323D-03	-0.9423D-06	-0.1056D+00	-0.1429D-06	-0.1002D-06	-0.9628D-07
p	-0.2216D+02	-0.2873D-01	-0.1983D+02	0.5053D+00	0.2907D+00	0.4332D-03	0.4857D+02	0.6569D-04	0.4607D-04	0.4426D-04
nc	0.1272D+06	0.1649D+03	0.1139D+06	-0.2901D+04	-0.1669D+04	-0.2487D+01	-0.2788D+06	-0.3771D+00	-0.2645D+00	-0.2541D+00
tw	0.4716D+00	0.6113D-03	0.4221D+00	-0.1075D-01	-0.6186D-02	-0.9219D-05	-0.1034D+01	-0.1398D-05	-0.9804D-06	-0.9419D-06
tt	0.2049D+01	0.2657D-02	0.1834D+01	-0.4673D-01	-0.2688D-01	-0.4006D-04	-0.4491D+01	-0.6074D-05	-0.4260D-05	-0.4093D-05
t2t	0.1587D+01	0.2057D-02	0.1420D+01	-0.3619D-01	-0.2081D-01	-0.3102D-04	-0.3478D+01	-0.4704D-05	-0.3299D-05	-0.3169D-05
rfk	0.2414D+01	0.3130D-02	0.2161D+01	-0.5506D-01	-0.3167D-01	-0.4720D-04	-0.5292D+01	-0.7157D-05	-0.5020D-05	-0.4823D-05
rawem	-0.1708D+02	-0.2214D-01	-0.1529D+02	0.3895D+00	0.2241D+00	0.3339D-03	0.3743D+02	0.5063D-04	0.3551D-04	0.3412D-04
eanfp	-0.2658D+08	-0.3446D+05	-0.2379D+08	0.6062D+06	0.3487D+06	0.5197D+03	0.5826D+08	0.7880D+02	0.5527D+02	0.5310D+02
ex7	-0.3670D+06	-0.4757D+03	-0.3285D+06	0.8368D+04	0.4814D+04	0.7174D+01	0.8042D+06	0.1088D+01	0.7629D+00	0.7330D+00
constant	0.2487D+00	0.3224D-03	0.2226D+00	-0.5672D-02	-0.3262D-02	-0.4862D-05	-0.5451D+00	-0.7372D-06	-0.5171D-06	-0.4968D-06
X(k)	ex1	za	ant	antl1	wd	sat	shd	fad	p	nc
str	-0.2760D-05	-0.4875D+01	0.1018D+01	-0.1063D+01	-0.8308D+00	-0.5387D+00	-0.7329D+00	0.2075D+02	-0.4513D-01	0.7861D-05
tlk	-0.2129D-02	-0.3760D+04	0.7851D+03	-0.8197D+03	-0.6408D+03	-0.4155D+03	-0.5653D+03	0.1600D+05	-0.3481D+02	0.6063D-02
dumrfk	-0.3084D-05	-0.5446D+01	0.1137D+01	-0.1187D+01	-0.9282D+00	-0.6018D+00	-0.8188D+00	0.2318D+02	-0.5042D-01	0.8782D-05
sfk	0.1210D-03	0.2138D+03	-0.4463D+02	0.4660D+02	0.3643D+02	0.2362D+02	0.3214D+02	-0.9098D+03	0.1979D+01	-0.3447D-03
csfmr	0.2104D-03	0.3716D+03	-0.7759D+02	0.8101D+02	0.6333D+02	0.4106D+02	0.5587D+02	-0.1582D+04	0.3440D+01	-0.5992D-03
rcutp	0.1412D+00	0.2493D+06	-0.5206D+05	0.5435D+05	0.4250D+05	0.2755D+05	0.3749D+05	-0.1061D+07	0.2308D+04	-0.4021D+00
dumex7	0.1259D-05	0.2224D+01	-0.4644D+00	0.4848D+00	0.3791D+00	0.2458D+00	0.3344D+00	-0.9466D+01	0.2059D-01	-0.3587D-05
ex8	0.9312D+00	0.1644D+07	-0.3433D+06	0.3585D+06	0.2803D+06	0.1817D+06	0.2472D+06	-0.6999D+07	0.1522D+05	-0.2652D+01
ex9	0.1328D+01	0.2345D+07	-0.4895D+06	0.5111D+06	0.3996D+06	0.2591D+06	0.3525D+06	-0.9979D+07	0.2170D+05	-0.3781D+01
ex0	0.1382D+01	0.2440D+07	-0.5095D+06	0.5320D+06	0.4159D+06	0.2697D+06	0.3669D+06	-0.1039D+08	0.2259D+05	-0.3935D+01
ex1	0.1000D+01	0.1766D+07	-0.3687D+06	0.3850D+06	0.3010D+06	0.1952D+06	0.2655D+06	-0.7516D+07	0.1635D+05	-0.2848D+01
za	0.5662D-06	0.1000D+01	-0.2088D+00	0.2180D+00	0.1704D+00	0.1105D+00	0.1503D+00	-0.4256D+01	0.9257D-02	-0.1613D-05
ant	-0.2712D-05	-0.4790D+01	0.1000D+01	-0.1044D+01	-0.8163D+00	-0.5293D+00	-0.7201D+00	0.2038D+02	-0.4434D-01	0.7723D-05
antl1	0.2598D-05	0.4587D+01	-0.9578D+00	0.1000D+01	0.7818D+00	0.5069D+00	0.6897D+00	-0.1952D+02	0.4247D-01	-0.7397D-05
wd	0.3322D-05	0.5867D+01	-0.1225D+01	0.1279D+01	0.1000D+01	0.6484D+00	0.8821D+00	-0.2497D+02	0.5432D-01	-0.9462D-05
sat	0.5124D-05	0.9049D+01	-0.1889D+01	0.1973D+01	0.1542D+01	0.1000D+01	0.1360D+01	-0.3852D+02	0.8377D-01	-0.1459D-04
shd	0.3766D-05	0.6652D+01	-0.1389D+01	0.1450D+01	0.1134D+01	0.7350D+00	0.1000D+01	-0.2831D+02	0.6158D-01	-0.1073D-04
fad	-0.1330D-06	-0.2350D+00	0.4906D-01	-0.5122D-01	-0.4004D-01	-0.2596D-01	-0.3532D-01	0.1000D+01	-0.2175D-02	0.3789D-06
p	0.6117D-04	0.1080D+03	-0.2255D+02	0.2355D+02	0.1841D+02	0.1194D+02	0.1624D+02	-0.4598D+03	0.1000D+01	-0.1742D-03
nc	-0.3511D+00	-0.6201D+06	0.1295D+06	-0.1352D+06	-0.1057D+06	-0.6853D+05	-0.9323D+05	0.2639D+07	-0.5741D+04	0.1000D+01
tw	-0.1302D-05	-0.2299D+01	0.4800D+00	-0.5011D+00	-0.3918D+00	-0.2540D+00	-0.3456D+00	0.9784D+01	-0.2128D-01	0.3707D-05
tt	-0.5656D-05	-0.9989D+01	0.2086D+01	-0.2177D+01	-0.1702D+01	-0.1104D+01	-0.1502D+01	0.4251D+02	-0.9247D-01	0.1611D-04
t2t	-0.4380D-05	-0.7735D+01	0.1615D+01	-0.1686D+01	-0.1318D+01	-0.8547D+00	-0.1163D+01	0.3292D+02	-0.7161D-01	0.1247D-04
rfk	-0.6665D-05	-0.1177D+02	0.2457D+01	-0.2566D+01	-0.2006D+01	-0.1301D+01	-0.1769D+01	0.5009D+02	-0.1090D+00	0.1898D-04
rawem	0.4715D-04	0.8326D+02	-0.1738D+02	0.1815D+02	0.1419D+02	0.9201D+01	0.1252D+02	-0.3544D+03	0.7708D+00	-0.1343D-03
eanfp	0.7338D+02	0.1296D+09	-0.2706D+08	0.2825D+08	0.2208D+08	0.1432D+08	0.1948D+08	-0.5515D+09	0.1200D+07	-0.2090D+03
ex7	0.1013D+01	0.1789D+07	-0.3735D+06	0.3899D+06	0.3049D+06	0.1977D+06	0.2689D+06	-0.7613D+07	0.1656D+05	-0.2885D+01
constant	-0.6865D-06	-0.1212D+01	0.2531D+00	-0.2643D+00	-0.2066D+00	-0.1340D+00	-0.1823D+00	0.5160D+01	-0.1122D-01	0.1955D-05
X(k)	tw	tt	t2t	rfk	rawem	eanfp	ex7	constant		
str	0.2121D+01	0.4880D+00	0.6302D+00	0.4142D+00	-0.5855D-01	-0.3762D-07	-0.2725D-05	0.4021D+01		
tlk	0.1636D+04	0.3764D+03	0.4861D+03	0.3195D+03	-0.4516D+02	-0.2902D-04	-0.2102D-02	0.3102D+04		

dumrfk	0.2369D+01	0.5452D+00	0.7041D+00	0.4627D+00	-0.6541D-01	-0.4203D-07	-0.3045D-05	0.4492D+01
sfk	-0.9299D+02	-0.2140D+02	-0.2764D+02	-0.1816D+02	0.2567D+01	0.1650D-05	0.1195D-03	-0.1763D+03
csfmr	-0.1617D+03	-0.3720D+02	-0.4804D+02	-0.3157D+02	0.4463D+01	0.2868D-05	0.2077D-03	-0.3065D+03
rcutp	-0.1085D+06	-0.2496D+05	-0.3224D+05	-0.2119D+05	0.2995D+04	0.1924D-02	0.1394D+00	-0.2057D+06
dumex7	-0.9676D+00	-0.2227D+00	-0.2876D+00	-0.1890D+00	0.2671D-01	0.1716D-07	0.1243D-05	-0.1835D+01
ex8	-0.7154D+06	-0.1646D+06	-0.2126D+06	-0.1397D+06	0.1975D+05	0.1269D-01	0.9193D+00	-0.1356D+07
ex9	-0.1020D+07	-0.2347D+06	-0.3031D+06	-0.1992D+06	0.2816D+05	0.1809D-01	0.1311D+01	-0.1934D+07
ex0	-0.1062D+07	-0.2443D+06	-0.3155D+06	-0.2074D+06	0.2931D+05	0.1883D-01	0.1364D+01	-0.2013D+07
ex1	-0.7683D+06	-0.1768D+06	-0.2283D+06	-0.1500D+06	0.2121D+05	0.1363D-01	0.9873D+00	-0.1457D+07
za	-0.4350D+00	-0.1001D+00	-0.1293D+00	-0.8496D-01	0.1201D-01	0.7717D-08	0.5590D-06	-0.8248D+00
ant	0.2084D+01	0.4795D+00	0.6192D+00	0.4069D+00	-0.5752D-01	-0.3696D-07	-0.2678D-05	0.3951D+01
antl1	-0.1996D+01	-0.4593D+00	-0.5931D+00	-0.3898D+00	0.5510D-01	0.3540D-07	0.2565D-05	-0.3784D+01
wd	-0.2552D+01	-0.5874D+00	-0.7586D+00	-0.4985D+00	0.7047D-01	0.4528D-07	0.3280D-05	-0.4840D+01
sat	-0.3937D+01	-0.9060D+00	-0.1170D+01	-0.7689D+00	0.1087D+00	0.6984D-07	0.5059D-05	-0.7464D+01
shd	-0.2894D+01	-0.6659D+00	-0.8600D+00	-0.5652D+00	0.7989D-01	0.5133D-07	0.3719D-05	-0.5487D+01
fad	0.1022D+00	0.2352D-01	0.3038D-01	0.1996D-01	-0.2822D-02	-0.1813D-08	-0.1314D-06	0.1938D+00
p	-0.4699D+02	-0.1081D+02	-0.1397D+02	-0.9178D+01	0.1297D+01	0.8336D-06	0.6039D-04	-0.8910D+02
nc	0.2698D+06	0.6208D+05	0.8017D+05	0.5269D+05	-0.7448D+04	-0.4786D-02	-0.3467D+00	0.5115D+06
tw	0.1000D+01	0.2301D+00	0.2972D+00	0.1953D+00	-0.2761D-01	-0.1774D-07	-0.1285D-05	0.1896D+01
tt	0.4345D+01	0.1000D+01	0.1291D+01	0.8487D+00	-0.1200D+00	-0.7709D-07	-0.5584D-05	0.8239D+01
t2t	0.3365D+01	0.7744D+00	0.1000D+01	0.6572D+00	-0.9290D-01	-0.5969D-07	-0.4324D-05	0.6380D+01
rfk	0.5120D+01	0.1178D+01	0.1522D+01	0.1000D+01	-0.1414D+00	-0.9083D-07	-0.6580D-05	0.9708D+01
rawem	-0.3622D+02	-0.8336D+01	-0.1076D+02	-0.7074D+01	0.1000D+01	0.6425D-06	0.4655D-04	-0.6868D+02
eanfp	-0.5637D+08	-0.1297D+08	-0.1675D+08	-0.1101D+08	0.1556D+07	0.1000D+01	0.7244D+02	-0.1069D+09
ex7	-0.7782D+06	-0.1791D+06	-0.2313D+06	-0.1520D+06	0.2148D+05	0.1380D-01	0.1000D+01	-0.1475D+07
constant	0.5274D+00	0.1214D+00	0.1567D+00	0.1030D+00	-0.1456D-01	-0.9356D-08	-0.6777D-06	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 178

	OBSERVED Y	FITTED E(Y)
MEAN	0.2023391D+08	0.2023390D+08
STD.ERROR	0.2286353D+07	0.2221244D+07
SKEWNESS	0.5282181	0.3951368

E(y) at the means : 0.2023390D+08

Sig(y) at the means : 0.5403136D+06

C.o.V. at the means : 0.0267034

Gam(y) at the means : -0.0300439

Pearson-R2 : 0.9438581

Pearson-R2 bar : 0.9328738

Pseudo-(1)-R2 : 0.9438581

Pseudo-(1)-R2 bar : 0.9328738

Error Variance : 0.2917086D+12

Log-likelihood : -0.2426663D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

Variant 2.3 modified, from TRANSP. RESEARCH, B., Vol.21B, No.6, p.467, 1987.

7	500	0.1D+01	0.1D-06
0.00000D+00	0.00000D+00	0.10000D+01	0.10000D+01
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)

-0.2489413305D+03	0.00000D+00	0.00000D+00	0.10000D+01	0.10000D+01	0.10000D+01	0.00000D+00	0.10000D+01
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new absolute minimum , parameters for fcn entry 8 follow - - f,x(i)

-0.2938107299D+03	0.30782D+00	0.62298D+00	0.10362D+01	0.10420D+01	0.91434D+00	0.32953D-01	0.10000D+01
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new absolute minimum , parameters for fcn entry 12 follow - - f,x(i)
-0.3016179957D+03 -0.11943D-01 0.94435D+00 0.10212D+01 0.99786D+00 0.93639D+00 0.10211D-02 0.99994D+00

new absolute minimum , parameters for fcn entry 15 follow - - f,x(i)
-0.3023999233D+03 -0.54592D-01 0.99443D+00 0.86799D+00 0.98576D+00 0.92643D+00 0.17375D+00 0.10001D+01

new absolute minimum , parameters for fcn entry 19 follow - - f,x(i)
-0.3042828994D+03 -0.52906D-01 0.11203D+01 0.23384D+00 0.98987D+00 0.93515D+00 0.10202D+00 0.10286D+01

new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)
-0.3045405556D+03 -0.65729D-01 0.11377D+01 0.15349D+00 0.10488D+01 0.89667D+00 0.92861D-01 0.10365D+01

new absolute minimum , parameters for fcn entry 25 follow - - f,x(i)
-0.3051837747D+03 -0.64087D-01 0.11929D+01 0.14210D+00 0.11888D+01 0.10210D+01 0.12126D+00 0.10826D+01

new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
-0.3099999493D+03 0.18397D-02 0.15217D+01 0.57878D+00 0.10366D+01 0.85074D+00 0.31382D+00 0.15462D+01

new absolute minimum , parameters for fcn entry 34 follow - - f,x(i)
-0.3111071879D+03 0.30809D-01 0.16293D+01 0.65044D+00 0.10042D+01 0.79572D+00 0.27291D+00 0.95685D+00

new absolute minimum , parameters for fcn entry 38 follow - - f,x(i)
-0.3114113976D+03 0.45577D-01 0.16623D+01 0.58474D+00 0.10170D+01 0.78924D+00 0.29192D+00 0.90409D+00

new absolute minimum , parameters for fcn entry 41 follow - - f,x(i)
-0.3119738848D+03 0.27958D-01 0.17563D+01 0.31966D+00 0.10551D+01 0.79008D+00 0.30396D+00 0.90209D+00

new absolute minimum , parameters for fcn entry 43 follow - - f,x(i)
-0.3121292377D+03 0.13002D-01 0.18452D+01 0.36332D+00 0.10697D+01 0.79296D+00 0.32438D+00 0.90084D+00

new absolute minimum , parameters for fcn entry 46 follow - - f,x(i)
-0.3121890397D+03 0.16185D-01 0.18889D+01 0.36358D+00 0.10903D+01 0.81412D+00 0.34816D+00 0.84832D+00

new absolute minimum , parameters for fcn entry 48 follow - - f,x(i)
-0.3121985347D+03 0.14505D-01 0.19173D+01 0.35526D+00 0.10792D+01 0.80172D+00 0.36047D+00 0.81521D+00

new absolute minimum , parameters for fcn entry 50 follow - - f,x(i)
-0.3121992083D+03 0.14328D-01 0.19207D+01 0.36108D+00 0.10789D+01 0.80318D+00 0.36686D+00 0.79808D+00

new absolute minimum , parameters for fcn entry 52 follow - - f,x(i)
-0.3121995099D+03 0.14258D-01 0.19192D+01 0.35713D+00 0.10806D+01 0.80376D+00 0.37334D+00 0.78399D+00

new absolute minimum , parameters for fcn entry 54 follow - - f,x(i)
-0.3121996337D+03 0.14462D-01 0.19149D+01 0.35801D+00 0.10792D+01 0.80298D+00 0.37561D+00 0.78203D+00

new absolute minimum , parameters for fcn entry 56 follow - - f,x(i)
-0.3121996375D+03 0.14406D-01 0.19149D+01 0.35801D+00 0.10792D+01 0.80305D+00 0.37564D+00 0.78281D+00

new absolute minimum , parameters for fcn entry 57 follow - - f,x(i)
-0.3121996375D+03 0.14407D-01 0.19149D+01 0.35803D+00 0.10793D+01 0.80305D+00 0.37565D+00 0.78289D+00

new absolute minimum , parameters for fcn entry 58 follow - - f,x(i)
-0.3121996376D+03 0.14407D-01 0.19149D+01 0.35802D+00 0.10793D+01 0.80306D+00 0.37565D+00 0.78291D+00

new absolute minimum , parameters for fcn entry 59 follow - - f,x(i)
-0.3121996376D+03 0.14407D-01 0.19149D+01 0.35802D+00 0.10793D+01 0.80306D+00 0.37565D+00 0.78292D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.3121996376D+03 0.14407D-01 0.19149D+01 0.35802D+00 0.10793D+01 0.80306D+00 0.37565D+00 0.78292D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3121996376D+03 for entry 59 - - x(i) follows
0.14407D-01 0.19149D+01 0.35802D+00 0.10793D+01 0.80306D+00 0.37565D+00 0.78292D+00

run statistics follow - -
nfcn= 59 nst= 20

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 178

OBSERVED Y FITTED E(Y)
MEAN 0.2023391D+08 0.2023332D+08
STD.ERROR 0.2286353D+07 0.2298764D+07
SKEWNESS 0.5282181 0.5970054

E(y) at the means : 0.2021575D+08
Sig(y) at the means : 0.3707803D+06
C.o.V. at the means : 0.0183412
Gam(y) at the means : -0.0820255
Pearson-R2 : 0.9739320
Pearson-R2 bar : 0.9671662
Pseudo-(1)-R2 : 0.9821389

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Pseudo-(1)-R2 bar : 0.9775031
 Error Variance : 0.7705838D+08
 Log-likelihood : -0.2363404D+04

FINAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y) SIGMA(y) GAMMA(y)	y(sample)	E(y) SIGMA(y) GAMMA(y)
							-first obs	13	-first obs	167
							-last obs	178	-last obs	178
1 str	NL	0	-0.2859698D+05	0.1496199D-15	0.6716404D+05	-0.4258	-0.0103	-0.0103	0.0000	0.0000
					0.5458233D+03	-52.3924		-0.0020	0.0000	0.0000
								-0.0291	0.0000	0.0000
2 tlk	NL	0	-0.3614761D+02	0.2736093D-14	0.8322297D+02	-0.4343	-0.0095	-0.0095	-0.0103	-0.0104
					0.2704411D+02	-1.3366		-0.0019	-0.0021	-0.0021
								-0.0268	-0.0323	-0.0323
3 dumrfk	NL	0	-0.2619500D+05	0.1083602D-16	0.6409054D+05	-0.4087	-0.0351	-0.0352	-0.0375	-0.0376
					0.8745077D+04	-2.9954		-0.0070	-0.0074	-0.0074
								-0.0995	-0.1171	-0.1171
4 sfk	NL	0	-0.6978869D+02	0.1539262D-15	0.4623027D+03	-0.1510	-0.0003	-0.0003	-0.0004	-0.0004
					0.3895526D+03	-0.1792		-0.0001	-0.0001	-0.0001
								-0.0007	-0.0013	-0.0013
5 csfmr	NL	0	0.6456445D+02	0.1348161D-14	0.1663534D+03	0.3881	0.0022	0.0022	0.0033	0.0033
					0.9449310D+02	0.6833		0.0004	0.0006	0.0006
								0.0062	0.0102	0.0102
6 rcutp	NL	0	-0.1003913D+01	0.5367373D-12	0.2512827D+01	-0.3995	-0.0311	-0.0311	-0.0615	-0.0617
					0.3412916D+00	-2.9415		-0.0062	-0.0122	-0.0122
								-0.0880	-0.1923	-0.1923
7 dumex7	NL	0	0.4743909D+05	0.2745742D-16	0.1193306D+06	0.3975	0.0027	0.0027	0.0000	0.0000
					0.1246862D+05	3.8047		0.0005	0.0000	0.0000
								0.0077	0.0000	0.0000
8 ex8	NL	0	0.9176785D-01	-0.3947065D-11	0.2211599D+00	0.4149	0.0031	0.0031	0.0000	0.0000
					0.1471521D-01	6.2363		0.0006	0.0000	0.0000
								0.0088	0.0000	0.0000
9 ex9	NL	0	0.5466982D-01	0.3045453D-11	0.1341754D+00	0.4075	0.0011	0.0011	0.0000	0.0000
					0.2552614D-01	2.1417		0.0002	0.0000	0.0000
								0.0030	0.0000	0.0000
10 ex0	NL	0	0.3460465D-03	-0.4725109D-11	0.4573905D-01	0.0076	0.0000	0.0000	0.0000	0.0000
					0.4482171D-01	0.0077		0.0000	0.0000	0.0000
								0.0000	0.0000	0.0000
11 ex1	NL	0	-0.6215599D-02	0.4365397D-11	0.7812290D-01	-0.0796	-0.0001	-0.0001	-0.0014	-0.0014
					0.7451982D-01	-0.0834		0.0000	-0.0003	-0.0003
								-0.0003	-0.0043	-0.0043
12 za	NL	0	0.3652438D+06	0.3981055D-19	0.8802321D+06	0.4149	0.0236	0.0236	0.0000	0.0000
					0.6873344D+05	5.3139		0.0047	0.0000	0.0000
								0.0667	0.0000	0.0000
13 ant	NL	0	-0.3395415D+05	0.3808260D-17	0.8282646D+05	-0.4099	-0.0003	-0.0003	0.0000	0.0000
					0.1147562D+05	-2.9588		-0.0001	0.0000	0.0000
								-0.0008	0.0000	0.0000
14 antl1	NL	0	0.2202794D+05	-0.2263272D-17	0.5260934D+05	0.4187	0.0002	0.0002	0.0000	0.0000
					0.8157935D+04	2.7002		0.0000	0.0000	0.0000
								0.0005	0.0000	0.0000
15 wd	FL	1	0.2385448D+05	0.3016132D-15	0.5806298D+05	0.4108	0.6745	0.6750	0.7107	0.7131
					0.6392428D+04	3.7317		0.1339	0.1413	0.1413
								1.9099	2.2222	2.2222
16 sat	FL	1	0.1461892D+05	-0.8162579D-17	0.3571582D+05	0.4093	0.0862	0.0863	0.0906	0.0909
					0.6699841D+04	2.1820		0.0171	0.0180	0.0180
								0.2441	0.2833	0.2833
17 shd	FL	1	0.1191966D+05	-0.9006128D-16	0.2984138D+05	0.3994	0.0852	0.0853	0.0895	0.0898
					0.6735505D+04	1.7697		0.0169	0.0178	0.0178
								0.2413	0.2798	0.2798
18 fad	EL	1	-0.2674483D+06	-0.5253722D-18	0.6411449D+06	-0.4171	-0.1906	-0.1908	-0.2235	-0.2243
					0.3339559D+05	-8.0085		-0.0378	-0.0444	-0.0444
								-0.5398	-0.6990	-0.6990
19 p	EL	1	-0.9463024D+04	0.1166127D-15	0.3968786D+05	-0.2384	-0.0754	-0.0755	-0.0837	-0.0840
					0.2702955D+05	-0.3501		-0.0150	-0.0166	-0.0166
								-0.2135	-0.2617	-0.2617
20 nc	EL	1	-0.1639609D+04	0.3078402D-14	0.6732055D+04	-0.2436	-0.2061	-0.2062	-0.2493	-0.2502
					0.7645729D+03	-2.1445		-0.0409	-0.0496	-0.0496
								-0.5836	-0.7796	-0.7796
21 tw	EL	1	0.3554718D+05	0.2251625D-16	0.8861238D+05	0.4012	0.0793	0.0794	0.0899	0.0902
					0.2556064D+05	1.3907		0.0157	0.0179	0.0179
								0.2246	0.2812	0.2812
22 tt	EL	1	-0.1080652D+06	0.2484401D-16	0.2770809D+06	-0.3900	-0.4396	-0.4399	-0.4441	-0.4456
					0.8762805D+04	-12.3323		-0.0873	-0.0883	-0.0883
								-1.2449	-1.3887	-1.3887
23 t2t	EL	1	0.2038791D+05	0.2695259D-16	0.5512646D+05	0.3698	0.0630	0.0630	0.0700	0.0702
					0.2868809D+05	0.7107		0.0125	0.0139	0.0139
								0.1783	0.2188	0.2188
24 rfk	EL	1	-0.7383468D+04	-0.3938364D-16	0.1745474D+05	-0.4230	-0.0090	-0.0090	-0.0088	-0.0089
					0.1840135D+04	-4.0125		-0.0018	-0.0018	-0.0018
								-0.0254	-0.0276	-0.0276
25 rawem	EL	2	0.3529085D+04	0.1212409D-14	0.6969707D+04	0.5063	0.5372	0.5376	0.7154	0.7178
					0.1041665D+04	3.3879		0.1066	0.1422	0.1422
								1.5213	2.2370	2.2370
26 eanfp	EL	2	0.6026933D-03	0.1413355D-08	0.1648541D-02	0.3656	0.4425	0.4428	0.4379	0.4394
					0.1012961D-03	5.9498		0.0878	0.0870	0.0870
								1.2531	1.3692	1.3692
27 ex7	EL	2	0.2825808D-01	0.1974740D-09	0.6075385D-01	0.4651	0.0106	0.0106	0.0000	0.0000
					0.1439836D-02	19.6259		0.0021	0.0000	0.0000
								0.0300	0.0000	0.0000
28 constant	NL	0	0.2608423D+06	0.7620683D-17	0.9671435D+06	0.2697	0.3542	0.3544	0.3730	0.3743
					0.4271887D+06	0.6106		0.0703	0.0741	0.0741
								1.0029	1.1664	1.1664

Autocorrelation

29 rho 1	0.1440593D-01	0.6747535D-05	0.3434618D-01 0.3311176D-01	0.4194 0.4351					
30 rho 12	0.9574919D+00	0.1573050D-04	0.3631624D-01 0.3599552D-01	26.3654 26.6003					
Box-cox on (x)									
31 lambda(x) 1	0.3580224D+00	-0.8704505D-06	0.2424193D+00	1.4769 -2.6482					
32 lambda(x) 2	0.1079252D+01	-0.2377461D-05	0.2036355D+00	5.2999 0.3892					
Box-cox on (y)									
33 lambda(y)	0.8030554D+00	0.2285826D-06	0.1424885D+00	5.6359 -1.3822					
Heteroskedasticity									
34 delta 1	0.4573071D-04	0.1388758D-01	0.8993861D-03 0.3681342D-04	0.0508 1.2422	0.0493	0.0490 0.3454	0.0456	0.0442 0.3879	
35 lambda(z) 1	0.7829155D+00	0.7858595D-05	0.1591153D+01	0.4920 -0.1364		-0.5810D+06		-0.5650D+06	
Residual (w)									
36 error variance	0.7705838D+08	0.1968690D-21	0.3951733D+09 0.5431036D+08	0.1950 1.4189					

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 str	-0.7856215D+06	-0.7854614D+06	-0.2857493D+04	0.9018380D-02
2 tlk	-0.9930541D+03	-0.9928516D+03	-0.3611975D+01	0.1139956D-04
3 dumrfk	-0.7196341D+06	-0.7194873D+06	-0.2617481D+04	0.8260891D-02
4 sfk	-0.1917248D+04	-0.1916857D+04	-0.6973490D+01	0.2200865D-04
5 csfmr	0.1773727D+04	0.1773365D+04	0.6451469D+01	-0.2036113D-04
6 rcutp	-0.2757969D+02	-0.2757407D+02	-0.1003139D+00	0.3165954D-06
7 dumex7	0.1303256D+07	0.1302990D+07	0.4740253D+04	-0.1496045D-01
8 ex8	0.2521064D+01	0.2520550D+01	0.9169712D-02	-0.2894003D-07
9 ex9	0.1501900D+01	0.1501593D+01	0.5462768D-02	-0.1724075D-07
10 ex0	0.9506656D-02	0.9504718D-02	0.3457798D-04	-0.1091297D-09
11 ex1	-0.1707561D+00	-0.1707213D+00	-0.6210808D-03	0.1960160D-08
12 za	0.1003405D+08	0.1003200D+08	0.3649623D+05	-0.1151838D+00
13 ant	-0.9327949D+06	-0.9326048D+06	-0.3392798D+04	0.1070783D-01
14 antl1	0.6051557D+06	0.6050324D+06	0.2201096D+04	-0.6946761D-02
15 wd	0.6553348D+06	0.6552012D+06	0.2383609D+04	-0.7522781D-02
16 sat	0.4016138D+06	0.4015319D+06	0.1460765D+04	-0.4610243D-02
17 shd	0.3274593D+06	0.3273925D+06	0.1191048D+04	-0.3759001D-02
18 fad	-0.2333449D+08	-0.2332973D+08	-0.8487312D+05	0.2678635D+00
19 p	-0.1088375D+05	-0.1088153D+05	-0.3958681D+02	0.1249378D-03
20 nc	-0.1340887D+02	-0.1340614D+02	-0.4877126D-01	0.1539243D-06
21 tw	0.4008344D+06	0.4007526D+06	0.1457930D+04	-0.4601295D-02
22 tt	-0.4149457D+06	-0.4148611D+06	-0.1509257D+04	0.4763283D-02
23 t2t	0.1283191D+06	0.1282929D+06	0.4667273D+03	-0.1473013D-02
24 rfk	-0.2482994D+06	-0.2482488D+06	-0.9031243D+03	0.2850302D-02
25 rawem	0.1371101D+06	0.1370821D+06	0.4987021D+03	-0.1573927D-02
26 eanfp	0.7248980D-01	0.7247502D-01	0.2636628D-03	-0.8321318D-09
27 ex7	0.1948144D+01	0.1947747D+01	0.7085866D-02	-0.2236332D-07

28 constant 0.7165909D+07 0.7164448D+07 0.2606412D+05 -0.8225957D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2749D+03	-0.8710D+08
SIGMA(y)	0.3638D-02	0.1000D+01	-0.3169D+06
GAMMA(y)	-0.1148D-07	-0.3156D-05	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.5042D+01	0.3534D+00
SIGMA(y)	0.1984D+00	0.1000D+01	0.7010D-01
GAMMA(y)	0.2830D+01	0.1427D+02	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) str	tlk	dumrfk	sfk	csfmr	rcutp	dumex7	ex8	ex9	ex0
str	0.1000D+01	0.1264D-02	0.9160D+00	0.2440D-02	-0.2258D-02	0.3511D-04	-0.1659D+01	-0.3209D-05	-0.1912D-05	-0.1210D-07
tlk	0.7911D+03	0.1000D+01	0.7247D+03	0.1931D+01	-0.1786D+01	0.2777D-01	-0.1312D+04	-0.2539D-02	-0.1512D-02	-0.9573D-05
dumrfk	0.1092D+01	0.1380D-02	0.1000D+01	0.2664D-02	-0.2465D-02	0.3832D-04	-0.1811D+01	-0.3503D-05	-0.2087D-05	-0.1321D-07
sfk	0.4098D+03	0.5180D+00	0.3753D+03	0.1000D+01	-0.9251D+00	0.1439D-01	-0.6798D+03	-0.1315D-02	-0.7834D-03	-0.4958D-05
csfmr	-0.4429D+03	-0.5599D+00	-0.4057D+03	-0.1081D+01	0.1000D+01	-0.1555D-01	0.7348D+03	0.1421D-02	0.8467D-03	0.5360D-05
rcutp	0.2849D+05	0.3601D+02	0.2609D+05	0.6952D+02	-0.6431D+02	0.1000D+01	-0.4725D+05	-0.9141D-01	-0.5446D-01	-0.3447D-03
dumex7	-0.6028D+00	-0.7620D-03	-0.5522D+00	-0.1471D-02	0.1361D-02	-0.2116D-04	0.1000D+01	0.1934D-05	0.1152D-05	0.7295D-08
ex8	-0.3116D+06	-0.3939D+03	-0.2854D+06	-0.7605D+03	0.7036D+03	-0.1094D+02	0.5169D+06	0.1000D+01	0.5957D+00	0.3771D-02
ex9	-0.5231D+06	-0.6612D+03	-0.4791D+06	-0.1277D+04	0.1181D+04	-0.1836D+02	0.8677D+06	0.1679D+01	0.1000D+01	0.6330D-02
ex0	-0.8264D+08	-0.1045D+06	-0.7570D+08	-0.2017D+06	0.1866D+06	-0.2901D+04	0.1371D+09	0.2652D+03	0.1580D+03	0.1000D+01
ex1	0.4601D+07	0.5816D+04	0.4214D+07	0.1123D+05	-0.1039D+05	0.1615D+03	-0.7632D+07	-0.1476D+02	-0.8796D+01	-0.5567D-01
za	-0.7830D-01	-0.9897D-04	-0.7172D-01	-0.1911D-03	0.1768D-03	-0.2749D-05	0.1299D+00	0.2513D-06	0.1497D-06	0.9474D-09
ant	0.8422D+00	0.1065D-02	0.7715D+00	0.2055D-02	-0.1902D-02	0.2957D-04	-0.1397D+01	-0.2703D-05	-0.1610D-05	-0.1019D-07
antl1	-0.1298D+01	-0.1641D-02	-0.1189D+01	-0.3168D-02	0.2931D-02	-0.4557D-04	0.2154D+01	0.4166D-05	0.2482D-05	0.1571D-07
wd	-0.1199D+01	-0.1515D-02	-0.1098D+01	-0.2926D-02	0.2707D-02	-0.4208D-04	0.1989D+01	0.3847D-05	0.2292D-05	0.1451D-07
sat	-0.1956D+01	-0.2473D-02	-0.1792D+01	-0.4774D-02	0.4416D-02	-0.6867D-04	0.3245D+01	0.6277D-05	0.3740D-05	0.2367D-07
shd	-0.2399D+01	-0.3033D-02	-0.2198D+01	-0.5855D-02	0.5417D-02	-0.8422D-04	0.3980D+01	0.7699D-05	0.4587D-05	0.2903D-07
fad	0.3367D-01	0.4256D-04	0.3084D-01	0.8216D-04	-0.7601D-04	0.1182D-05	-0.5585D-01	-0.1080D-06	-0.6436D-07	-0.4074D-09
p	0.7218D+02	0.9124D-01	0.6612D+02	0.1762D+00	-0.1630D+00	0.2534D-02	-0.1197D+03	-0.2316D-03	-0.1380D-03	-0.8735D-06
nc	0.5859D+05	0.7406D+02	0.5367D+05	0.1430D+03	-0.1323D+03	0.2057D+01	-0.9719D+05	-0.1880D+00	-0.1120D+00	-0.7090D-03
tw	-0.1960D+01	-0.2477D-02	-0.1795D+01	-0.4783D-02	0.4425D-02	-0.6881D-04	0.3251D+01	0.6290D-05	0.3747D-05	0.2372D-07
tt	0.1893D+01	0.2393D-02	0.1734D+01	0.4620D-02	-0.4275D-02	0.6647D-04	-0.3141D+01	-0.6076D-05	-0.3620D-05	-0.2291D-07
t2t	-0.6122D+01	-0.7739D-02	-0.5608D+01	-0.1494D-01	0.1382D-01	-0.2149D-03	0.1016D+02	0.1965D-04	0.1170D-04	0.7409D-07
rfk	0.3164D+01	0.3999D-02	0.2898D+01	0.7722D-02	-0.7144D-02	0.1111D-03	-0.5249D+01	-0.1015D-04	-0.6049D-05	-0.3829D-07
rawem	-0.5730D+01	-0.7243D-02	-0.5249D+01	-0.1398D-01	0.1294D-01	-0.2012D-03	0.9505D+01	0.1839D-04	0.1095D-04	0.6934D-07
eanfp	-0.1084D+08	-0.1370D+05	-0.9927D+07	-0.2645D+05	0.2447D+05	-0.3805D+03	0.1798D+08	0.3478D+02	0.2072D+02	0.1311D+00
ex7	-0.4033D+06	-0.5097D+03	-0.3694D+06	-0.9841D+03	0.9105D+03	-0.1416D+02	0.6690D+06	0.1294D+01	0.7709D+00	0.4880D-02
constant	-0.1096D+00	-0.1386D-03	-0.1004D+00	-0.2676D-03	0.2475D-03	-0.3849D-05	0.1819D+00	0.3518D-06	0.2096D-06	0.1327D-08
X(l)	X(k) ex1	za	ant	antl1	wd	sat	shd	fad	p	nc
str	0.2174D-06	-0.1277D+02	0.1187D+01	-0.7703D+00	-0.8342D+00	-0.5112D+00	-0.4168D+00	0.2970D+02	0.1385D-01	0.1707D-04
tlk	0.1720D-03	-0.1010D+05	0.9393D+03	-0.6094D+03	-0.6599D+03	-0.4044D+03	-0.3297D+03	0.2350D+05	0.1096D+02	0.1350D-01

dumrfk	0.2373D-06	-0.1394D+02	0.1296D+01	-0.8409D+00	-0.9107D+00	-0.5581D+00	-0.4550D+00	0.3243D+02	0.1512D-01	0.1863D-04
sfk	0.8906D-04	-0.5234D+04	0.4865D+03	-0.3156D+03	-0.3418D+03	-0.2095D+03	-0.1708D+03	0.1217D+05	0.5677D+01	0.6994D-02
csfmr	-0.9627D-04	0.5657D+04	-0.5259D+03	0.3412D+03	0.3695D+03	0.2264D+03	0.1846D+03	-0.1316D+05	-0.6136D+01	-0.7560D-02
rcutp	0.6191D-02	-0.3638D+06	0.3382D+05	-0.2194D+05	-0.2376D+05	-0.1456D+05	-0.1187D+05	0.8461D+06	0.3946D+03	0.4862D+00
dumex7	-0.1310D-06	0.7699D+01	-0.7157D+00	0.4643D+00	0.5028D+00	0.3082D+00	0.2513D+00	-0.1790D+02	-0.8351D-02	-0.1029D-04
ex8	-0.6773D-01	0.3980D+07	-0.3700D+06	0.2400D+06	0.2599D+06	0.1593D+06	0.1299D+06	-0.9256D+07	-0.4317D+04	-0.5319D+01
ex9	-0.1137D+00	0.6681D+07	-0.6211D+06	0.4029D+06	0.4363D+06	0.2674D+06	0.2180D+06	-0.1554D+08	-0.7247D+04	-0.8928D+01
ex0	-0.1796D+02	0.1055D+10	-0.9812D+08	0.6366D+08	0.6893D+08	0.4225D+08	0.3445D+08	-0.2455D+10	-0.1145D+07	-0.1410D+04
ex1	0.1000D+01	-0.5876D+08	0.5463D+07	-0.3544D+07	-0.3838D+07	-0.2352D+07	-0.1918D+07	0.1367D+09	0.6374D+05	0.7853D+02
za	-0.1702D-07	0.1000D+01	-0.9296D-01	0.6031D-01	0.6531D-01	0.4003D-01	0.3263D-01	-0.2326D+01	-0.1085D-02	-0.1336D-05
ant	0.1831D-06	-0.1076D+02	0.1000D+01	-0.6488D+00	-0.7025D+00	-0.4305D+00	-0.3511D+00	0.2502D+02	0.1167D-01	0.1437D-04
antl1	-0.2822D-06	0.1658D+02	-0.1541D+01	0.1000D+01	0.1083D+01	0.6637D+00	0.5411D+00	-0.3856D+02	-0.1799D-01	-0.2216D-04
wd	-0.2606D-06	0.1531D+02	-0.1423D+01	0.9234D+00	0.1000D+01	0.6128D+00	0.4997D+00	-0.3561D+02	-0.1661D-01	-0.2046D-04
sat	-0.4252D-06	0.2498D+02	-0.2323D+01	0.1507D+01	0.1632D+01	0.1000D+01	0.8154D+00	-0.5810D+02	-0.2710D-01	-0.3339D-04
shd	-0.5215D-06	0.3064D+02	-0.2849D+01	0.1848D+01	0.2001D+01	0.1226D+01	0.1000D+01	-0.7126D+02	-0.3324D-01	-0.4095D-04
fad	0.7318D-08	-0.4300D+00	0.3997D-01	-0.2593D-01	-0.2808D-01	-0.1721D-01	-0.1403D-01	0.1000D+01	0.4664D-03	0.5746D-06
p	0.1569D-04	-0.9219D+03	0.8571D+02	-0.5560D+02	-0.6021D+02	-0.3690D+02	-0.3009D+02	0.2144D+04	0.1000D+01	0.1232D-02
nc	0.1273D-01	-0.7483D+06	0.6957D+05	-0.4513D+05	-0.4887D+05	-0.2995D+05	-0.2442D+05	0.1740D+07	0.8117D+03	0.1000D+01
tw	-0.4260D-06	0.2503D+02	-0.2327D+01	0.1510D+01	0.1635D+01	0.1002D+01	0.8169D+00	-0.5821D+02	-0.2715D-01	-0.3345D-04
tt	0.4115D-06	-0.2418D+02	0.2248D+01	-0.1458D+01	-0.1579D+01	-0.9679D+00	-0.7892D+00	0.5624D+02	0.2623D-01	0.3231D-04
t2t	-0.1331D-05	0.7820D+02	-0.7269D+01	0.4716D+01	0.5107D+01	0.3130D+01	0.2552D+01	-0.1818D+03	-0.8482D-01	-0.1045D-03
rfrk	0.6877D-06	-0.4041D+02	0.3757D+01	-0.2437D+01	-0.2639D+01	-0.1617D+01	-0.1319D+01	0.9398D+02	0.4383D-01	0.5400D-04
rawem	-0.1245D-05	0.7318D+02	-0.6803D+01	0.4414D+01	0.4780D+01	0.2929D+01	0.2388D+01	-0.1702D+03	-0.7938D-01	-0.9780D-04
eanfp	-0.2356D+01	0.1384D+09	-0.1287D+08	0.8348D+07	0.9040D+07	0.5540D+07	0.4517D+07	-0.3219D+09	-0.1501D+06	-0.1850D+03
ex7	-0.8765D-01	0.5151D+07	-0.4788D+06	0.3106D+06	0.3364D+06	0.2062D+06	0.1681D+06	-0.1198D+08	-0.5587D+04	-0.6883D+01
constant	-0.2383D-07	0.1400D+01	-0.1302D+00	0.8445D-01	0.9145D-01	0.5605D-01	0.4570D-01	-0.3256D+01	-0.1519D-02	-0.1871D-05
=====										
X(l)	X(k)	tw	tt	t2t	rfrk	rawem	eanfp	ex7	constant	
=====										
str	-0.5102D+00	0.5282D+00	-0.1633D+00	0.3161D+00	-0.1745D+00	-0.9227D-07	-0.2480D-05	-0.9121D+01		
tlk	-0.4036D+03	0.4178D+03	-0.1292D+03	0.2500D+03	-0.1381D+03	-0.7300D-04	-0.1962D-02	-0.7216D+04		
dumrfk	-0.5570D+00	0.5766D+00	-0.1783D+00	0.3450D+00	-0.1905D+00	-0.1007D-06	-0.2707D-05	-0.9958D+01		
sfk	-0.2091D+03	0.2164D+03	-0.6693D+02	0.1295D+03	-0.7151D+02	-0.3781D-04	-0.1016D-02	-0.3738D+04		
csfmr	0.2260D+03	-0.2339D+03	0.7234D+02	-0.1400D+03	0.7730D+02	0.4087D-04	0.1098D-02	0.4040D+04		
rcutp	-0.1453D+05	0.1505D+05	-0.4653D+04	0.9003D+04	-0.4971D+04	-0.2628D-02	-0.7064D-01	-0.2598D+06		
dumex7	0.3076D+00	-0.3184D+00	0.9846D-01	-0.1905D+00	0.1052D+00	0.5562D-07	0.1495D-05	0.5498D+01		
ex8	0.1590D+06	-0.1646D+06	0.5090D+05	-0.9849D+05	0.5439D+05	0.2875D-01	0.7727D+00	0.2842D+07		
ex9	0.2669D+06	-0.2763D+06	0.8544D+05	-0.1653D+06	0.9129D+05	0.4827D-01	0.1297D+01	0.4771D+07		
ex0	0.4216D+08	-0.4365D+08	0.1350D+08	-0.2612D+08	0.1442D+08	0.7625D+01	0.2049D+03	0.7538D+09		
ex1	-0.2347D+07	0.2430D+07	-0.7515D+06	0.1454D+07	-0.8030D+06	-0.4245D+00	-0.1141D+02	-0.4197D+08		
za	0.3995D-01	-0.4135D-01	0.1279D-01	-0.2475D-01	0.1366D-01	0.7224D-08	0.1942D-06	0.7142D+00		
ant	-0.4297D+00	0.4448D+00	-0.1376D+00	0.2662D+00	-0.1470D+00	-0.7771D-07	-0.2089D-05	-0.7682D+01		
antl1	0.6624D+00	-0.6857D+00	0.2120D+00	-0.4103D+00	0.2266D+00	0.1198D-06	0.3219D-05	0.1184D+02		
wd	0.6116D+00	-0.6332D+00	0.1958D+00	-0.3789D+00	0.2092D+00	0.1106D-06	0.2973D-05	0.1093D+02		
sat	0.9981D+00	-0.1033D+01	0.3195D+00	-0.6183D+00	0.3414D+00	0.1805D-06	0.4851D-05	0.1784D+02		
shd	0.1224D+01	-0.1267D+01	0.3919D+00	-0.7583D+00	0.4187D+00	0.2214D-06	0.5949D-05	0.2188D+02		
fad	-0.1718D-01	0.1778D-01	-0.5499D-02	0.1064D-01	-0.5876D-02	-0.3107D-08	-0.8349D-07	-0.3071D+00		
p	-0.3683D+02	0.3813D+02	-0.1179D+02	0.2281D+02	-0.1260D+02	-0.6660D-05	-0.1790D-03	-0.6584D+03		
nc	-0.2989D+05	0.3095D+05	-0.9570D+04	0.1852D+05	-0.1023D+05	-0.5406D-02	-0.1453D+00	-0.5344D+06		
tw	0.1000D+01	-0.1035D+01	0.3201D+00	-0.6195D+00	0.3421D+00	0.1808D-06	0.4860D-05	0.1788D+02		
tt	-0.9660D+00	0.1000D+01	-0.3092D+00	0.5984D+00	-0.3304D+00	-0.1747D-06	-0.4695D-05	-0.1727D+02		

t2t	0.3124D+01	-0.3234D+01	0.1000D+01	-0.1935D+01	0.1069D+01	0.5649D-06	0.1518D-04	0.5584D+02
rfk	-0.1614D+01	0.1671D+01	-0.5168D+00	0.1000D+01	-0.5522D+00	-0.2919D-06	-0.7846D-05	-0.2886D+02
rawem	0.2923D+01	-0.3026D+01	0.9359D+00	-0.1811D+01	0.1000D+01	0.5287D-06	0.1421D-04	0.5226D+02
eanfp	0.5530D+07	-0.5724D+07	0.1770D+07	-0.3425D+07	0.1891D+07	0.1000D+01	0.2687D+02	0.9885D+08
ex7	0.2058D+06	-0.2130D+06	0.6587D+05	-0.1275D+06	0.7038D+05	0.3721D-01	0.1000D+01	0.3678D+07
constant	0.5594D-01	-0.5791D-01	0.1791D-01	-0.3465D-01	0.1913D-01	0.1012D-07	0.2719D-06	0.1000D+01

Log-likelihood

```
- initial value :      -2426.6625
- final value   :      -2363.4042
- ratio test    :           126.5166
```

```
Pearson-r2      :           0.9739
Pearson-r2 bar  :           0.9672
Pseudo-(1)-r2   :           0.9821
Pseudo-(1)-r2 bar :          0.9775
Std-error of (w) :          8778.2901
```

```
Number of observations   first-last obs.no.
- sample      :      181           1 -      181
- estimation   :      166          13 -      178
- prediction   :       3          179 -      181
```

Prediction of the dependent variable for 3 periods

period no.	observed value	simulated value	max. likelihood predicted value	error of forecast in %	std-error of forecast	95% confidence interval	
						lower bound	upper bound
179	0.1923300D+08	0.1943854D+08	0.1943692D+08	-1.06	0.4570459D+06	0.1853454D+08	0.2033931D+08
180	0.2042560D+08	0.1962174D+08	0.1961984D+08	3.94	0.4930132D+06	0.1864644D+08	0.2059324D+08
181	0.1954110D+08	0.1975209D+08	0.1974932D+08	-1.07	0.6231484D+06	0.1851898D+08	0.2097966D+08

CPU TIME: 0.47 sec

1.10 Second Example of Input Files

This example can be found in directory *d:\Level1new\Level1Tests\Second Example*.

It contains six estimated variants reported in the tablex given in *Gaudry, Duclos, Dufort and Liem (1993)*, pp. 2.34-2.38. The corresponding batch files are also stored in this directory.

The database is stored in the file *Demtec.in* in the same directory as the input files and the definitions of the variables are given in *Gaudry (1980)*, pp. 57-58.

Input file 1: sch_lin.in

```
$card1 nob=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=26,nro=0,ns1=26,ngf=0,maxf=0,ngv=0,maxv=0,nly=-1,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='s_lin',nvariant=1$
Variant sch_lin
Demtec.in
(a8/(5d15.6))
xcscnf
tlk
rfk
sfk
csfmr
rscmp
ex7
ex8
zsc
```

```

str
ant
antl1
struct1
cheat2
cardex
fscd
nc
p
rawem
tw
tt
t2t
tend
shonf
wd
sat
shd

```

Input file 2: sch_bc1.in

```

$card1 nobs=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=26,nro=0,ns1=14,ngf=0,maxf=0,ngv=1,maxv=12,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='s_bc1',nvariant=2$
Variant sch_bc1
1. 12
1 0.
Demtec.in
(a8/(5d15.6))
xcscnfa
tlk
rfk
sfk
csfmr
rscmp
ex7
ex8
zsc
str
ant
antl1
struct1
cheat2
cardex
fscd
nc
p
rawem
tw
tt
t2t
tend
shonf
wd
sat
shd

```

Input file 3: sch_bc1au.in

```

$card1 nobs=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=26,nro=4,ns1=14,ngf=0,maxf=0,ngv=1,maxv=12,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='s_bc1au',nvariant=3$
Variant sch_bc1au
1 3 4 12 0. 0. 0. 0.
1. 12
1 0.
Demtec.in
(a8/(5d15.6))
xcscnfa
tlk
rfk
sfk

```

```

csfmr
rscmp
ex7
ex8
zsc
str
ant
antl1
struct1
cheat2
cardex
fscd
nc
p
rawem
tw
tt
t2t
tend
shonf
wd
sat
shd

```

Input file 4: sch_bc1auhg.in

```

$card1 nob=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=26,nro=4,ns1=14,ngf=0,maxf=0,ngv=1,maxv=12,nly=2,ndm=1,nle=1,nd=1$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ndql=0,ncov=0,ney=0,varname='s_bc1auhg',nvariant=4$
Variant sch_bc1auhg
1 3 4 12 0. 0. 0. 0.
1. 12
1 0.
0. 1. 22
Dentec.in
(a8/(5d15.6))
xcscnfa
tlk
rfk
sfk
csfmr
rscmp
ex7
ex8
zsc
str
ant
antl1
struct1
cheat2
cardex
fscd
nc
p
rawem
tw
tt
t2t
tend
shonf
wd
sat
shd

```

Input file 5: ad_bc1auhg.in

```

$card1 nob=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=27,nro=2,ns1=15,ngf=0,maxf=0,ngv=1,maxv=12,nly=2,ndm=1,nle=1,nd=1$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ndql=0,ncov=0,ney=0,varname='a_bc1auhg',nvariant=5$
Variant ad_bc1auhg
1 12 0. 0.
1. 12

```



```

1 0.
0. 1. 24
Demtec.in
(a8/(5d15.6))
xcanfa
tlk
rfk
sfk
csfmr
rcutp
ex7
ex8
ex9
ex0
ex1
str
za
ant
antl1
fir
fad
nc
p
rawem
tw
tt
t2t
eanfp
shonf
wd
sat
shd

```

Input file 6: ad_bc2auhg.in

```

$card1 nob=181,nc=13,nf=181,nfp=181,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=29,nro=2,ns1=15,ngf=0,maxf=0,ngv=1,maxv=14,nly=1,ndm=1,nle=1,nd=1$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ncov=0,ney=0,varname='a_bc2auhg',nvariant=6$
Variant ad_bc2auhg
1 12 0. 0.
1. 14
1. 0.
0. 1. 24
Demtec.in
(a8/(5d15.6))
xcanfa
tlk
dumrfk
sfk
csfmr
rcutp
dumex7
ex8
ex9
ex0
ex1
str
za
ant
antl1
fir
fad
nc
p
rawem
tw
tt
t2t
eanfp
shonf
wd
sat
shd

```

rfk
ex7

1.11 Second Example of Output Files

Output file 1: sch_lin.txt

```
&CARD1
NOBS      =      181,
NC         =       13,
NF         =      181,
NFP        =      181,
NOBEL      =       12,
NM         =        0,
NSTEP      =      500,
EPSI       = 1.0000000000000000E-007,
WGHT       = 1.0000000000000000
/
&CARD2
NB         =       26,
NRO        =        0,
NSL        =       26,
NGF        =        0,
MAXF       =        0,
NGV        =        0,
MAXV       =        0,
NLY        =       -1,
NDM        =       -1,
NLE        =        0,
ND         =        0
/
&CARD3
NCOR       =        0,
NRES       =        0,
NPW        =        0,
NGUVW     =        0,
NPDQL     =        0,
NCOV       =        0,
NEY        =        0,
VARNAME    = s_lin ,
NVARIANT   =      1
/
```

Working space used : 13464 out of 500000

group (x) without box-cox transformation

```
variable no.
 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26
```

no.	variable	minimum	mean	maximum	null obs.
	xcscnfa	0.11946D+07	0.30692D+07	0.56239D+07	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	rfk	0.00000D+00	0.71459D+00	0.20581D+01	2
3	sfk	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rscmp	0.00000D+00	0.31171D+06	0.48000D+06	29
6	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	zsc	0.00000D+00	0.69971D-01	0.19910D+00	73
9	str	0.00000D+00	0.24309D+00	0.20000D+02	178
10	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
11	antl1	0.00000D+00	0.55249D-02	0.10000D+01	180
12	struct1	0.00000D+00	0.34558D+00	0.10000D+01	118
13	cheat2	0.00000D+00	0.82873D-01	0.10000D+01	166
14	cardex	0.00000D+00	0.99448D-01	0.10000D+01	163
15	fscd	0.48049D-01	0.59514D-01	0.73232D-01	0
16	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
17	p	0.12030D+03	0.13936D+03	0.16661D+03	0
18	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
19	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
20	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
21	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
22	tend	0.10000D+01	0.87122D+02	0.15500D+03	0
23	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
24	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
25	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
26	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
27	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)	COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y y(sample) E(y)	E L A S T I C I T Y y(sample) E(y)
						SIGMA(y)	SIGMA(y)
						GAMMA(y)	GAMMA(y)
type	group					-first obs	170
						-last obs	181

1	tlk	NL	0	0.1047874D+04	0.1936095D+03	0.3302359D+03	3.1731	0.0653	0.0653	0.0701	0.0701
									0.0000		0.0000
									0.0000		0.0000
2	rfk	NL	0	-0.5065668D+05	0.7128659D+00	0.5847963D+05	-0.8662	-0.0116	-0.0116	-0.0095	-0.0095
									0.0000		0.0000
									0.0000		0.0000
3	sfk	NL	0	-0.3592992D+05	0.2689872D+01	0.1105072D+05	-3.2514	-0.0311	-0.0311	-0.0496	-0.0496
									0.0000		0.0000
									0.0000		0.0000
4	csfmr	NL	0	0.2221204D+04	0.2501124D+02	0.1239743D+04	1.7917	0.0179	0.0179	0.0270	0.0270
									0.0000		0.0000
									0.0000		0.0000
5	rscmp	NL	0	0.4323811D+01	0.3178287D+06	0.3651290D+00	11.8419	0.4423	0.4423	0.5343	0.5343
									0.0000		0.0000
									0.0000		0.0000
6	ex7	NL	0	0.2585828D+00	0.1081862D+06	0.4805589D-01	5.3809	0.0090	0.0090	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
7	ex8	NL	0	0.2570512D+00	0.2437638D+05	0.1816524D+00	1.4151	0.0020	0.0020	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
8	zsc	NL	0	0.3046750D+07	0.6872512D-01	0.8535266D+06	3.5696	0.0674	0.0674	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
9	str	NL	0	-0.1288422D+06	0.2603550D+00	0.1118485D+05	-11.5193	-0.0108	-0.0108	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
10	ant	NL	0	0.1190409D+07	0.5917160D-02	0.2876662D+06	4.1382	0.0023	0.0023	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
11	antl1	NL	0	-0.3744721D+06	0.5917160D-02	0.3011484D+06	-1.2435	-0.0007	-0.0007	0.0000	0.0000
									0.0000		0.0000
									0.0000		0.0000
12	struct1	NL	0	0.1094552D+06	0.3701183D+00	0.3098343D+06	0.3533	0.0130	0.0130	0.0372	0.0372
									0.0000		0.0000
									0.0000		0.0000
13	cheat2	NL	0	-0.2399829D+06	0.8875740D-01	0.2061219D+06	-1.1643	-0.0069	-0.0069	-0.0816	-0.0816
									0.0000		0.0000
									0.0000		0.0000
14	cardex	NL	0	0.5866120D+05	0.1065089D+00	0.1453406D+06	0.4036	0.0020	0.0020	0.0033	0.0033
									0.0000		0.0000
									0.0000		0.0000
15	fsod	NL	0	-0.1938637D+08	0.6021048D-01	0.8394865D+07	-2.3093	-0.3757	-0.3757	-0.4038	-0.4038
									0.0000		0.0000
									0.0000		0.0000
16	nc	NL	0	-0.9135182D+01	0.3138985D+06	0.6631562D+01	-1.3775	-0.9230	-0.9230	-1.4409	-1.4409
									0.0000		0.0000
									0.0000		0.0000
17	p	NL	0	-0.2388173D+05	0.1406331D+03	0.3368080D+05	-0.7091	-1.0811	-1.0811	-1.3287	-1.3287
									0.0000		0.0000
									0.0000		0.0000
18	rawem	NL	0	0.3566232D+05	0.7968800D+02	0.2386297D+05	1.4945	0.9148	0.9148	1.2132	1.2132
									0.0000		0.0000
									0.0000		0.0000
19	tw	NL	0	-0.5400299D+05	0.4015184D+01	0.1642368D+06	-0.3288	-0.0698	-0.0698	-0.0896	-0.0896
									0.0000		0.0000
									0.0000		0.0000
20	tt	NL	0	0.4305496D+05	0.2140038D+02	0.5374149D+05	0.8011	0.2966	0.2966	0.2799	0.2799
									0.0000		0.0000
									0.0000		0.0000
21	t2t	NL	0	0.3110235D+06	0.9963177D+01	0.2441552D+06	1.2739	0.9975	0.9975	1.2351	1.2351
									0.0000		0.0000
									0.0000		0.0000
22	tend	NL	0	0.1795343D+05	0.9284615D+02	0.8224375D+04	2.1830	0.5366	0.5366	0.8213	0.8213
									0.0000		0.0000
									0.0000		0.0000
23	shonf	NL	0	0.2073890D+01	0.2128346D+06	0.5550214D+00	3.7366	0.1421	0.1421	0.1770	0.1770
									0.0000		0.0000
									0.0000		0.0000
24	wd	NL	0	0.1292937D+06	0.2082249D+02	0.3326362D+05	3.8869	0.8666	0.8666	0.9161	0.9161
									0.0000		0.0000
									0.0000		0.0000
25	sat	NL	0	0.8112208D+05	0.4343195D+01	0.5389466D+05	1.5052	0.1134	0.1134	0.1196	0.1196
									0.0000		0.0000
									0.0000		0.0000
26	shd	NL	0	0.3591234D+05	0.5272189D+01	0.3811082D+05	0.9423	0.0609	0.0609	0.0641	0.0641
									0.0000		0.0000
									0.0000		0.0000
27	constant	NL	0	-0.3227653D+07	0.1000000D+01	0.2812801D+07	-1.1475	-1.0389	-1.0389	-1.0978	-1.0978
									0.0000		0.0000
									0.0000		0.0000

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	0.1047874D+04	0.1047874D+04	0.0000000D+00	0.0000000D+00
2 rfk	-0.5065668D+05	-0.5065668D+05	0.0000000D+00	0.0000000D+00
3 sfk	-0.3592992D+05	-0.3592992D+05	0.0000000D+00	0.0000000D+00

4	csfmr	0.2221204D+04	0.2221204D+04	0.0000000D+00	0.0000000D+00
5	rscmp	0.4323811D+01	0.4323811D+01	0.0000000D+00	0.0000000D+00
6	ex7	0.2585828D+00	0.2585828D+00	0.0000000D+00	0.0000000D+00
7	ex8	0.2570512D+00	0.2570512D+00	0.0000000D+00	0.0000000D+00
8	zsc	0.3046750D+07	0.3046750D+07	0.0000000D+00	0.0000000D+00
9	str	-0.1288422D+06	-0.1288422D+06	0.0000000D+00	0.0000000D+00
10	ant	0.1190409D+07	0.1190409D+07	0.0000000D+00	0.0000000D+00
11	ant11	-0.3744721D+06	-0.3744721D+06	0.0000000D+00	0.0000000D+00
12	struct1	0.1094552D+06	0.1094552D+06	0.0000000D+00	0.0000000D+00
13	cheat2	-0.2399829D+06	-0.2399829D+06	0.0000000D+00	0.0000000D+00
14	cardex	0.5866120D+05	0.5866120D+05	0.0000000D+00	0.0000000D+00
15	fscd	-0.1938637D+08	-0.1938637D+08	0.0000000D+00	0.0000000D+00
16	nc	-0.9135182D+01	-0.9135182D+01	0.0000000D+00	0.0000000D+00
17	p	-0.2388173D+05	-0.2388173D+05	0.0000000D+00	0.0000000D+00
18	rawem	0.3566232D+05	0.3566232D+05	0.0000000D+00	0.0000000D+00
19	tw	-0.5400299D+05	-0.5400299D+05	0.0000000D+00	0.0000000D+00
20	tt	0.4305496D+05	0.4305496D+05	0.0000000D+00	0.0000000D+00
21	t2t	0.3110235D+06	0.3110235D+06	0.0000000D+00	0.0000000D+00
22	tend	0.1795343D+05	0.1795343D+05	0.0000000D+00	0.0000000D+00
23	shonf	0.2073890D+01	0.2073890D+01	0.0000000D+00	0.0000000D+00
24	wd	0.1292937D+06	0.1292937D+06	0.0000000D+00	0.0000000D+00
25	sat	0.8112208D+05	0.8112208D+05	0.0000000D+00	0.0000000D+00
26	shd	0.3591234D+05	0.3591234D+05	0.0000000D+00	0.0000000D+00
27	constant	-0.3227653D+07	-0.3227653D+07	0.0000000D+00	0.0000000D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	-Infinity	-Infinity
SIGMA(y)	0.0000D+00	NaN	NaN
GAMMA(y)	0.0000D+00	NaN	NaN

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	NaN	NaN
SIGMA(y)	NaN	NaN	NaN
GAMMA(y)	NaN	NaN	NaN

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) t1k	r1k	s1k	csfmr	rscmp	ex7	ex8	zsc	str	ant
t1k	0.1000D+01	-0.4834D+02	-0.3429D+02	0.2120D+01	0.4126D-02	0.2468D-03	0.2453D-03	0.2908D+04	-0.1230D+03	0.1136D+04
r1k	-0.2069D-01	0.1000D+01	0.7093D+00	-0.4385D-01	-0.8536D-04	-0.5105D-05	-0.5074D-05	-0.6015D+02	0.2543D+01	-0.2350D+02
s1k	-0.2916D-01	0.1410D+01	0.1000D+01	-0.6182D-01	-0.1203D-03	-0.7197D-05	-0.7154D-05	-0.8480D+02	0.3586D+01	-0.3313D+02
csfmr	0.4718D+00	-0.2281D+02	-0.1618D+02	0.1000D+01	0.1947D-02	0.1164D-03	0.1157D-03	0.1372D+04	-0.5801D+02	0.5359D+03
rscmp	0.2423D+03	-0.1172D+05	-0.8310D+04	0.5137D+03	0.1000D+01	0.5980D-01	0.5945D-01	0.7046D+06	-0.2980D+05	0.2753D+06
ex7	0.4052D+04	-0.1959D+06	-0.1389D+06	0.8590D+04	0.1672D+02	0.1000D+01	0.9941D+00	0.1178D+08	-0.4983D+06	0.4604D+07
ex8	0.4077D+04	-0.1971D+06	-0.1398D+06	0.8641D+04	0.1682D+02	0.1006D+01	0.1000D+01	0.1185D+08	-0.5012D+06	0.4631D+07
zsc	0.3439D-03	-0.1663D-01	-0.1179D-01	0.7290D-03	0.1419D-05	0.8487D-07	0.8437D-07	0.1000D+01	-0.4229D-01	0.3907D+00
str	-0.8133D-02	0.3932D+00	0.2789D+00	-0.1724D-01	-0.3356D-04	-0.2007D-05	-0.1995D-05	-0.2365D+02	0.1000D+01	-0.9239D+01

ant	0.8803D-03	-0.4255D-01	-0.3018D-01	0.1866D-02	0.3632D-05	0.2172D-06	0.2159D-06	0.2559D+01	-0.1082D+00	0.1000D+01		
ant11	-0.2798D-02	0.1353D+00	0.9595D-01	-0.5932D-02	-0.1155D-04	-0.6905D-06	-0.6864D-06	-0.8136D+01	0.3441D+00	-0.3179D+01		
struct1	0.9574D-02	-0.4628D+00	-0.3283D+00	0.2029D-01	0.3950D-04	0.2362D-05	0.2348D-05	0.2784D+02	-0.1177D+01	0.1088D+02		
cheat2	-0.4366D-02	0.2111D+00	0.1497D+00	-0.9256D-02	-0.1802D-04	-0.1078D-05	-0.1071D-05	-0.1270D+02	0.5369D+00	-0.4960D+01		
cardex	0.1786D-01	-0.8635D+00	-0.6125D+00	0.3786D-01	0.7371D-04	0.4408D-05	0.4382D-05	0.5194D+02	-0.2196D+01	0.2029D+02		
fscd	-0.5405D-04	0.2613D-02	0.1853D-02	-0.1146D-03	-0.2230D-06	-0.1334D-07	-0.1326D-07	-0.1572D+00	0.6646D-02	-0.6140D-01		
nc	-0.1147D+03	0.5545D+04	0.3933D+04	-0.2431D+03	-0.4733D+00	-0.2831D-01	-0.2814D-01	-0.3335D+06	0.1410D+05	-0.1303D+06		
p	-0.4388D-01	0.2121D+01	0.1504D+01	-0.9301D-01	-0.1811D-03	-0.1083D-04	-0.1076D-04	-0.1276D+03	0.5395D+01	-0.4985D+02		
rawem	0.2938D-01	-0.1420D+01	-0.1008D+01	0.6228D-01	0.1212D-03	0.7251D-05	0.7208D-05	0.8543D+02	-0.3613D+01	0.3338D+02		
tw	-0.1940D-01	0.9380D+00	0.6653D+00	-0.4113D-01	-0.8007D-04	-0.4788D-05	-0.4760D-05	-0.5642D+02	0.2386D+01	-0.2204D+02		
tt	0.2434D-01	-0.1177D+01	-0.8345D+00	0.5159D-01	0.1004D-03	0.6006D-05	0.5970D-05	0.7076D+02	-0.2993D+01	0.2765D+02		
t2t	0.3369D-02	-0.1629D+00	-0.1155D+00	0.7142D-02	0.1390D-04	0.8314D-06	0.8265D-06	0.9796D+01	-0.4143D+00	0.3827D+01		
tend	0.5837D-01	-0.2822D+01	-0.2001D+01	0.1237D+00	0.2408D-03	0.1440D-04	0.1432D-04	0.1697D+03	-0.7176D+01	0.6631D+02		
shonf	0.5053D+03	-0.2443D+05	-0.1732D+05	0.1071D+04	0.2085D+01	0.1247D+00	0.1239D+00	0.1469D+07	-0.6213D+05	0.5740D+06		
wd	0.8105D-02	-0.3918D+00	-0.2779D+00	0.1718D-01	0.3344D-04	0.2000D-05	0.1988D-05	0.2356D+02	-0.9965D+00	0.9207D+01		
sat	0.1292D-01	-0.6244D+00	-0.4429D+00	0.2738D-01	0.5330D-04	0.3188D-05	0.3169D-05	0.3756D+02	-0.1588D+01	0.1467D+02		
shd	0.2918D-01	-0.1411D+01	-0.1000D+01	0.6185D-01	0.1204D-03	0.7200D-05	0.7158D-05	0.8484D+02	-0.3588D+01	0.3315D+02		
constant	-0.3247D-03	0.1569D-01	0.1113D-01	-0.6882D-03	-0.1340D-05	-0.8011D-07	-0.7964D-07	-0.9440D+00	0.3992D-01	-0.3688D+00		
=====												
X(l)	X(k)	ant11	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt	
=====												
tlk	-0.3574D+03	0.1045D+03	-0.2290D+03	0.5598D+02	-0.1850D+05	-0.8718D-02	-0.2279D+02	0.3403D+02	-0.5154D+02	0.4109D+02		
rflk	0.7392D+01	-0.2161D+01	0.4737D+01	-0.1158D+01	0.3827D+03	0.1803D-03	0.4714D+00	-0.7040D+00	0.1066D+01	-0.8499D+00		
sflk	0.1042D+02	-0.3046D+01	0.6679D+01	-0.1633D+01	0.5396D+03	0.2542D-03	0.6647D+00	-0.9926D+00	0.1503D+01	-0.1198D+01		
csfmr	-0.1686D+03	0.4928D+02	-0.1080D+03	0.2641D+02	-0.8728D+04	-0.4113D-02	-0.1075D+02	0.1606D+02	-0.2431D+02	0.1938D+02		
rscmp	-0.8661D+05	0.2531D+05	-0.5550D+05	0.1357D+05	-0.4484D+07	-0.2113D+01	-0.5523D+04	0.8248D+04	-0.1249D+05	0.9958D+04		
ex7	-0.1448D+07	0.4233D+06	-0.9281D+06	0.2269D+06	-0.7497D+08	-0.3533D+02	-0.9236D+05	0.1379D+06	-0.2088D+06	0.1665D+06		
ex8	-0.1457D+07	0.4258D+06	-0.9336D+06	0.2282D+06	-0.7542D+08	-0.3554D+02	-0.9291D+05	0.1387D+06	-0.2101D+06	0.1675D+06		
zsc	-0.1229D+00	0.3593D-01	-0.7877D-01	0.1925D-01	-0.6363D+01	-0.2998D-05	-0.7838D-02	0.1171D-01	-0.1772D-01	0.1413D-01		
str	0.2906D+01	-0.8495D+00	0.1863D+01	-0.4553D+00	0.1505D+03	0.7090D-04	0.1854D+00	-0.2768D+00	0.4191D+00	-0.3342D+00		
ant	-0.3146D+00	0.9195D-01	-0.2016D+00	0.4928D-01	-0.1629D+02	-0.7674D-05	-0.2006D-01	0.2996D-01	-0.4537D-01	0.3617D-01		
ant11	0.1000D+01	-0.2923D+00	0.6409D+00	-0.1567D+00	0.5177D+02	0.2439D-04	0.6377D-01	-0.9523D-01	0.1442D+00	-0.1150D+00		
struct1	-0.3421D+01	0.1000D+01	-0.2193D+01	0.5359D+00	-0.1771D+03	-0.8346D-04	-0.2182D+00	0.3258D+00	-0.4934D+00	0.3934D+00		
cheat2	0.1560D+01	-0.4561D+00	0.1000D+01	-0.2444D+00	0.8078D+02	0.3807D-04	0.9951D-01	-0.1486D+00	0.2250D+00	-0.1794D+00		
cardex	-0.6384D+01	0.1866D+01	-0.4091D+01	0.1000D+01	-0.3305D+03	-0.1557D-03	-0.4071D+00	0.6079D+00	-0.9206D+00	0.7340D+00		
fscd	0.1932D-01	-0.5646D-02	0.1238D-01	-0.3026D-02	0.1000D+01	0.4712D-06	0.1232D-02	-0.1840D-02	0.2786D-02	-0.2221D-02		
nc	0.4099D+05	-0.1198D+05	0.2627D+05	-0.6421D+04	0.2122D+07	0.1000D+01	0.2614D+04	-0.3904D+04	0.5912D+04	-0.4713D+04		
p	0.1568D+02	-0.4583D+01	0.1005D+02	-0.2456D+01	0.8118D+03	0.3825D-03	0.1000D+01	-0.1493D+01	0.2261D+01	-0.1803D+01		
rawem	-0.1050D+02	0.3069D+01	-0.6729D+01	0.1645D+01	-0.5436D+03	-0.2562D-03	-0.6697D+00	0.1000D+01	-0.1514D+01	0.1207D+01		
tw	0.6934D+01	-0.2027D+01	0.4444D+01	-0.1086D+01	0.3590D+03	0.1692D-03	0.4422D+00	-0.6604D+00	0.1000D+01	-0.7973D+00		
tt	-0.8698D+01	0.2542D+01	-0.5574D+01	0.1362D+01	-0.4503D+03	-0.2122D-03	-0.5547D+00	0.8283D+00	-0.1254D+01	0.1000D+01		
t2t	-0.1204D+01	0.3519D+00	-0.7716D+00	0.1886D+00	-0.6233D+02	-0.2937D-04	-0.7678D-01	0.1147D+00	-0.1736D+00	0.1384D+00		
tend	-0.2086D+02	0.6097D+01	-0.1337D+02	0.3267D+01	-0.1080D+04	-0.5088D-03	-0.1330D+01	0.1986D+01	-0.3008D+01	0.2398D+01		
shonf	-0.1806D+06	0.5278D+05	-0.1157D+06	0.2829D+05	-0.9348D+07	-0.4405D+01	-0.1152D+05	0.1720D+05	-0.2604D+05	0.2076D+05		
wd	-0.2896D+01	0.8466D+00	-0.1856D+01	0.4537D+00	-0.1499D+03	-0.7065D-04	-0.1847D+00	0.2758D+00	-0.4177D+00	0.3330D+00		
sat	-0.4616D+01	0.1349D+01	-0.2958D+01	0.7231D+00	-0.2390D+03	-0.1126D-03	-0.2944D+00	0.4396D+00	-0.6657D+00	0.5307D+00		
shd	-0.1043D+02	0.3048D+01	-0.6682D+01	0.1633D+01	-0.5398D+03	-0.2544D-03	-0.6650D+00	0.9930D+00	-0.1504D+01	0.1199D+01		
constant	0.1160D+00	-0.3391D-01	0.7435D-01	-0.1817D-01	0.6006D+01	0.2830D-05	0.7399D-02	-0.1105D-01	0.1673D-01	-0.1334D-01		
=====												
X(l)	X(k)	t2t	tend	shonf	wd	sat	shd	constant				
=====												
tlk	0.2968D+03	0.1713D+02	0.1979D-02	0.1234D+03	0.7742D+02	0.3427D+02	-0.3080D+04					

rfk	-0.6140D+01	-0.3544D+00	-0.4094D-04	-0.2552D+01	-0.1601D+01	-0.7089D+00	0.6372D+02
sfk	-0.8656D+01	-0.4997D+00	-0.5772D-04	-0.3598D+01	-0.2258D+01	-0.9995D+00	0.8983D+02
csfmr	0.1400D+03	0.8083D+01	0.9337D-03	0.5821D+02	0.3652D+02	0.1617D+02	-0.1453D+04
rscmp	0.7193D+05	0.4152D+04	0.4796D+00	0.2990D+05	0.1876D+05	0.8306D+04	-0.7465D+06
ex7	0.1203D+07	0.6943D+05	0.8020D+01	0.5000D+06	0.3137D+06	0.1389D+06	-0.1248D+08
ex8	0.1210D+07	0.6984D+05	0.8068D+01	0.5030D+06	0.3156D+06	0.1397D+06	-0.1256D+08
zsc	0.1021D+00	0.5893D-02	0.6807D-06	0.4244D-01	0.2663D-01	0.1179D-01	-0.1059D+01
str	-0.2414D+01	-0.1393D+00	-0.1610D-04	-0.1004D+01	-0.6296D+00	-0.2787D+00	0.2505D+02
ant	0.2613D+00	0.1508D-01	0.1742D-05	0.1086D+00	0.6815D-01	0.3017D-01	-0.2711D+01
antl1	-0.8306D+00	-0.4794D-01	-0.5538D-05	-0.3453D+00	-0.2166D+00	-0.9590D-01	0.8619D+01
struct1	0.2842D+01	0.1640D+00	0.1895D-04	0.1181D+01	0.7411D+00	0.3281D+00	-0.2949D+02
cheat2	-0.1296D+01	-0.7481D-01	-0.8642D-05	-0.5388D+00	-0.3380D+00	-0.1496D+00	0.1345D+02
cardex	0.5302D+01	0.3061D+00	0.3535D-04	0.2204D+01	0.1383D+01	0.6122D+00	-0.5502D+02
fscd	-0.1604D-01	-0.9261D-03	-0.1070D-06	-0.6669D-02	-0.4184D-02	-0.1852D-02	0.1665D+00
nc	-0.3405D+05	-0.1965D+04	-0.2270D+00	-0.1415D+05	-0.8880D+04	-0.3931D+04	0.3533D+06
p	-0.1302D+02	-0.7518D+00	-0.8684D-04	-0.5414D+01	-0.3397D+01	-0.1504D+01	0.1352D+03
rawem	0.8721D+01	0.5034D+00	0.5815D-04	0.3625D+01	0.2275D+01	0.1007D+01	-0.9051D+02
tw	-0.5759D+01	-0.3325D+00	-0.3840D-04	-0.2394D+01	-0.1502D+01	-0.6650D+00	0.5977D+02
tt	0.7224D+01	0.4170D+00	0.4817D-04	0.3003D+01	0.1884D+01	0.8341D+00	-0.7497D+02
t2t	0.1000D+01	0.5772D-01	0.6668D-05	0.4157D+00	0.2608D+00	0.1155D+00	-0.1038D+02
tend	0.1732D+02	0.1000D+01	0.1155D-03	0.7202D+01	0.4518D+01	0.2000D+01	-0.1798D+03
shonf	0.1500D+06	0.8657D+04	0.1000D+01	0.6234D+05	0.3912D+05	0.1732D+05	-0.1556D+07
wd	0.2406D+01	0.1389D+00	0.1604D-04	0.1000D+01	0.6274D+00	0.2778D+00	-0.2496D+02
sat	0.3834D+01	0.2213D+00	0.2557D-04	0.1594D+01	0.1000D+01	0.4427D+00	-0.3979D+02
shd	0.8661D+01	0.4999D+00	0.5775D-04	0.3600D+01	0.2259D+01	0.1000D+01	-0.8988D+02
constant	-0.9636D-01	-0.5562D-02	-0.6425D-06	-0.4006D-01	-0.2513D-01	-0.1113D-01	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106667D+07
STD.ERROR	0.8078877D+06	0.7693364D+06
SKEWNESS	-0.6058193	-0.8194342

E(y) at the means : 0.3106667D+07

Sig(y) at the means : 0.0000000D+00

C.o.V. at the means : 0.0000000

Gam(y) at the means : 0.0000000

Pearson-R2 : 0.9068398

Pearson-R2 bar : 0.8897823

Pseudo-(1)-R2 : 0.9068398

Pseudo-(1)-R2 bar : 0.8897823

Error Variance : 0.6044424D+11

Log-likelihood : -0.2337512D+04

Output file 2: sch_bc1.txt

```

&CARD1
NOBS = 181,
NC = 13,
NF = 181,
NFP = 181,
NOBEL = 12,
NM = 0,
NSTEP = 500,
EPSI = 1.000000000000000E-007,
WGHT = 1.000000000000000
/
&CARD2

```

```

NB      =      26,
NRO     =      0,
NSL     =      14,
NGF     =      0,
MAXF    =      0,
NGV     =      1,
MAXV    =      12,
NLY     =      2,
NDM     =     -1,
NLE     =      0,
ND      =      0
/
&CARD3
NCOR    =      0,
NRES    =      0,
NFW     =      0,
NGUVW   =      0,
NPDQL   =      0,
NCOV    =      0,
NEY     =      0,
VARNAME = s_bc1
N VARIANT   =      2
/

```

Working space used : 13538 out of 500000

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14

```

```

group          1 (estimated lambda(x))
initial value:  1.000000000000000
variable no.
 15 16 17 18 19 20 21 22 23 24 25 26

```

```

lambda(y) is set equal to lambda(x) of group no.          1
lambda(y) initial value:  1.000000000000000
upper limit for y        0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	xcscnfa	0.11946D+07	0.30692D+07	0.56239D+07	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	rfk	0.00000D+00	0.71459D+00	0.20581D+01	2
3	sfk	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rscmp	0.00000D+00	0.31171D+06	0.48000D+06	29
6	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	zsc	0.00000D+00	0.69971D-01	0.19910D+00	73
9	str	0.00000D+00	0.24309D+00	0.20000D+02	178
10	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
11	antl1	0.00000D+00	0.55249D-02	0.10000D+01	180
12	struct1	0.00000D+00	0.34558D+00	0.10000D+01	118
13	cheat2	0.00000D+00	0.82873D-01	0.10000D+01	166
14	cardex	0.00000D+00	0.99448D-01	0.10000D+01	163
15	fscd	0.48049D-01	0.59514D-01	0.73232D-01	0
16	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
17	p	0.12030D+03	0.13936D+03	0.16661D+03	0
18	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
19	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
20	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
21	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
22	tend	0.10000D+01	0.87122D+02	0.15500D+03	0
23	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
24	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
25	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
26	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
27	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y (sample)	E (y)	y (sample)	E (y)
							SIGMA (y)		SIGMA (y)	
							GAMMA (y)		GAMMA (y)	
							-first obs	13	-first obs	170
							-last obs	181	-last obs	181
1 tlk	NL	0	0.1047874D+04	0.1936095D+03	0.3302359D+03	3.1731	0.0653	0.0653	0.0701	0.0703
							0.0000	0.0000	0.0000	0.0000
							0.1984	0.1984	0.2140	0.2140
2 rfk	NL	0	-0.5065668D+05	0.7128659D+00	0.5847963D+05	-0.8662	-0.0116	-0.0116	-0.0095	-0.0096
							0.0000	0.0000	0.0000	0.0000
							-0.0353	-0.0353	-0.0291	-0.0291
3 sfk	NL	0	-0.3592992D+05	0.2689872D+01	0.1105072D+05	-3.2514	-0.0311	-0.0311	-0.0496	-0.0498
							0.0000	0.0000	0.0000	0.0000
							-0.0945	-0.0945	-0.1514	-0.1514
4 csfmr	NL	0	0.2221204D+04	0.2501124D+02	0.1239743D+04	1.7917	0.0179	0.0179	0.0270	0.0271
							0.0000	0.0000	0.0000	0.0000
							0.0543	0.0543	0.0825	0.0825
5 rscmp	NL	0	0.4323811D+01	0.3178287D+06	0.3651290D+00	11.8419	0.4423	0.4423	0.5343	0.5360
							0.0000	0.0000	0.0000	0.0000
							1.3439	1.3439	1.6310	1.6310

6	ex7	NL	0	0.2585828D+00	0.1081862D+06	0.4805589D-01	5.3809	0.0090	0.0090	0.0000	0.0000
									0.0000		0.0000
									0.0274		0.0000
7	ex8	NL	0	0.2570512D+00	0.2437638D+05	0.1816524D+00	1.4151	0.0020	0.0020	0.0000	0.0000
									0.0000		0.0000
									0.0061		0.0000
8	zsc	NL	0	0.3046750D+07	0.6872512D-01	0.8535266D+06	3.5696	0.0674	0.0674	0.0000	0.0000
									0.0000		0.0000
									0.2048		0.0000
9	str	NL	0	-0.1288422D+06	0.2603550D+00	0.1118485D+05	-11.5193	-0.0108	-0.0108	0.0000	0.0000
									0.0000		0.0000
									-0.0328		0.0000
10	ant	NL	0	0.1190409D+07	0.5917160D-02	0.2876662D+06	4.1382	0.0023	0.0023	0.0000	0.0000
									0.0000		0.0000
									0.0069		0.0000
11	antl1	NL	0	-0.3744721D+06	0.5917160D-02	0.3011484D+06	-1.2435	-0.0007	-0.0007	0.0000	0.0000
									0.0000		0.0000
									-0.0022		0.0000
12	struct1	NL	0	0.1094552D+06	0.3701183D+00	0.3098343D+06	0.3533	0.0130	0.0130	0.0372	0.0373
									0.0000		0.0000
									0.0396		0.1136
13	cheat2	NL	0	-0.2399829D+06	0.8875740D-01	0.2061219D+06	-1.1643	-0.0069	-0.0069	-0.0816	-0.0819
									0.0000		0.0000
									-0.0208		-0.2492
14	cardex	NL	0	0.5866120D+05	0.1065089D+00	0.1453406D+06	0.4036	0.0020	0.0020	0.0033	0.0033
									0.0000		0.0000
									0.0061		0.0102
15	fsod	EL	1	-0.1938637D+08	0.6021048D-01	0.8394865D+07	-2.3093	-0.3757	-0.3757	-0.4038	-0.4052
									0.0000		0.0000
									-1.1415		-1.2329
16	nc	EL	1	-0.9135182D+01	0.3138985D+06	0.6631562D+01	-1.3775	-0.9230	-0.9230	-1.4409	-1.4455
									-0.0001		-0.0001
									-2.8042		-4.3986
17	p	EL	1	-0.2388173D+05	0.1406331D+03	0.3368080D+05	-0.7091	-1.0811	-1.0811	-1.3287	-1.3330
									-0.0001		-0.0001
									-3.2843		-4.0561
18	rawem	EL	1	0.3566232D+05	0.7968800D+02	0.2386297D+05	1.4945	0.9148	0.9148	1.2132	1.2171
									0.0001		0.0001
									2.7791		3.7035
19	tw	EL	1	-0.5400299D+05	0.4015184D+01	0.1642368D+06	-0.3288	-0.0698	-0.0698	-0.0896	-0.0899
									0.0000		0.0000
									-0.2120		-0.2735
20	tt	EL	1	0.4305496D+05	0.2140038D+02	0.5374149D+05	0.8011	0.2966	0.2966	0.2799	0.2808
									0.0000		0.0000
									0.9010		0.8546
21	t2t	EL	1	0.3110235D+06	0.9963177D+01	0.2441552D+06	1.2739	0.9975	0.9975	1.2351	1.2391
									0.0001		0.0001
									3.0303		3.7705
22	tend	EL	1	0.1795343D+05	0.9284615D+02	0.8224375D+04	2.1830	0.5366	0.5366	0.8213	0.8239
									0.0000		0.0001
									1.6301		2.5072
23	shonf	EL	1	0.2073890D+01	0.2128346D+06	0.5550214D+00	3.7366	0.1421	0.1421	0.1770	0.1776
									0.0000		0.0000
									0.4316		0.5404
24	wd	EL	1	0.1292937D+06	0.2082249D+02	0.3326362D+05	3.8869	0.8666	0.8666	0.9161	0.9191
									0.0001		0.0001
									2.6327		2.7967
25	sat	EL	1	0.8112208D+05	0.4343195D+01	0.5389466D+05	1.5052	0.1134	0.1134	0.1196	0.1199
									0.0000		0.0000
									0.3445		0.3650
26	shd	EL	1	0.3591234D+05	0.5272189D+01	0.3811082D+05	0.9423	0.0609	0.0609	0.0641	0.0643
									0.0000		0.0000
									0.1852		0.1958
27	constant	NL	0	-0.2203789D+08	0.1000000D+01	0.9941611D+07	-2.2167	-7.0937	-7.0937	-7.4954	-7.5197
									-0.0006		-0.0006
									-21.5509		-22.8816

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 t1k	0.1047874D+04	0.1047873D+04	0.7590909D-02	-0.1162930D-05
2 rfk	-0.5065668D+05	-0.5065665D+05	-0.3669623D+00	0.5621877D-04
3 sfk	-0.3592992D+05	-0.3592990D+05	-0.2602802D+00	0.3987502D-04
4 csfmr	0.2221204D+04	0.2221203D+04	0.1609064D-01	-0.2465092D-05
5 rscmp	0.4323811D+01	0.4323808D+01	0.3132215D-04	-0.4798565D-08
6 ex7	0.2585828D+00	0.2585827D+00	0.1873201D-05	-0.2869751D-09
7 ex8	0.2570512D+00	0.2570510D+00	0.1862106D-05	-0.2852753D-09
8 zsc	0.3046750D+07	0.3046749D+07	0.2207098D+02	-0.3381283D-02
9 str	-0.1288422D+06	-0.1288421D+06	-0.9333465D+00	0.1429890D-03
10 ant	0.1190409D+07	0.1190408D+07	0.8623447D+01	-0.1321115D-02
11 antl1	-0.3744721D+06	-0.3744719D+06	-0.2712715D+01	0.4155890D-03

12	struct1	0.1094552D+06	0.1094551D+06	0.7929050D+00	-0.1214733D-03
13	cheat2	-0.2399829D+06	-0.2399828D+06	-0.1738462D+01	0.2663330D-03
14	cardex	0.5866120D+05	0.5866116D+05	0.4249479D+00	-0.6510219D-04
15	fscd	-0.1938637D+08	-0.1938636D+08	-0.1404369D+03	0.2151499D-01
16	nc	-0.9135182D+01	-0.9135177D+01	-0.6617623D-04	0.1013822D-07
17	p	-0.2388173D+05	-0.2388172D+05	-0.1730018D+00	0.2650394D-04
18	rawem	0.3566232D+05	0.3566230D+05	0.2583416D+00	-0.3957803D-04
19	tw	-0.5400299D+05	-0.5400296D+05	-0.3912034D+00	0.5993251D-04
20	tt	0.4305496D+05	0.4305493D+05	0.3118947D+00	-0.4778238D-04
21	t2t	0.3110235D+06	0.3110233D+06	0.2253087D+01	-0.3451738D-03
22	tend	0.1795343D+05	0.1795342D+05	0.1300565D+00	-0.1992471D-04
23	shonf	0.2073890D+01	0.2073889D+01	0.1502348D-04	-0.2301603D-08
24	wd	0.1292937D+06	0.1292936D+06	0.9366174D+00	-0.1434901D-03
25	sat	0.8112208D+05	0.8112203D+05	0.5876569D+00	-0.9002926D-04
26	shd	0.3591234D+05	0.3591232D+05	0.2601528D+00	-0.3985550D-04
27	constant	-0.2203789D+08	-0.2203788D+08	-0.1596448D+03	0.2445765D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1380D+06	-0.9011D+09
SIGMA(y)	0.7244D-05	0.1000D+01	-0.6527D+04
GAMMA(y)	-0.1110D-08	-0.1532D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1092D+05	0.3292D+00
SIGMA(y)	0.9153D-04	0.1000D+01	0.3013D-04
GAMMA(y)	0.3038D+01	0.3319D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	tlk	rfk	sfk	csfmr	rscmp	ex7	ex8	zsc	str	ant
tlk		0.1000D+01	-0.4834D+02	-0.3429D+02	0.2120D+01	0.4126D-02	0.2468D-03	0.2453D-03	0.2908D+04	-0.1230D+03	0.1136D+04
rfk		-0.2069D-01	0.1000D+01	0.7093D+00	-0.4385D-01	-0.8536D-04	-0.5105D-05	-0.5074D-05	-0.6015D+02	0.2543D+01	-0.2350D+02
sfk		-0.2916D-01	0.1410D+01	0.1000D+01	-0.6182D-01	-0.1203D-03	-0.7197D-05	-0.7154D-05	-0.8480D+02	0.3586D+01	-0.3313D+02
csfmr		0.4718D+00	-0.2281D+02	-0.1618D+02	0.1000D+01	0.1947D-02	0.1164D-03	0.1157D-03	0.1372D+04	-0.5801D+02	0.5359D+03
rscmp		0.2423D+03	-0.1172D+05	-0.8310D+04	0.5137D+03	0.1000D+01	0.5980D-01	0.5945D-01	0.7046D+06	-0.2980D+05	0.2753D+06
ex7		0.4052D+04	-0.1959D+06	-0.1389D+06	0.8590D+04	0.1672D+02	0.1000D+01	0.9941D+00	0.1178D+08	-0.4983D+06	0.4604D+07
ex8		0.4077D+04	-0.1971D+06	-0.1398D+06	0.8641D+04	0.1682D+02	0.1006D+01	0.1000D+01	0.1185D+08	-0.5012D+06	0.4631D+07
zsc		0.3439D-03	-0.1663D-01	-0.1179D-01	0.7290D-03	0.1419D-05	0.8487D-07	0.8437D-07	0.1000D+01	-0.4229D-01	0.3907D+00
str		-0.8133D-02	0.3932D+00	0.2789D+00	-0.1724D-01	-0.3356D-04	-0.2007D-05	-0.1995D-05	-0.2365D+02	0.1000D+01	-0.9239D+01
ant		0.8803D-03	-0.4255D-01	-0.3018D-01	0.1866D-02	0.3632D-05	0.2172D-06	0.2159D-06	0.2559D+01	-0.1082D+00	0.1000D+01
ant11		-0.2798D-02	0.1353D+00	0.9595D-01	-0.5932D-02	-0.1155D-04	-0.6905D-06	-0.6864D-06	-0.8136D+01	0.3441D+00	-0.3179D+01
struct1		0.9574D-02	-0.4628D+00	-0.3283D+00	0.2029D-01	0.3950D-04	0.2362D-05	0.2348D-05	0.2784D+02	-0.1177D+01	0.1088D+02
cheat2		-0.4366D-02	0.2111D+00	0.1497D+00	-0.9256D-02	-0.1802D-04	-0.1078D-05	-0.1071D-05	-0.1270D+02	0.5369D+00	-0.4960D+01
cardex		0.1786D-01	-0.8635D+00	-0.6125D+00	0.3786D-01	0.7371D-04	0.4408D-05	0.4382D-05	0.5194D+02	-0.2196D+01	0.2029D+02
fscd		-0.5405D-04	0.2613D-02	0.1853D-02	-0.1146D-03	-0.2230D-06	-0.1334D-07	-0.1326D-07	-0.1572D+00	0.6646D-02	-0.6140D-01
nc		-0.1147D+03	0.5545D+04	0.3933D+04	-0.2431D+03	-0.4733D+00	-0.2831D-01	-0.2814D-01	-0.3335D+06	0.1410D+05	-0.1303D+06
p		-0.4388D-01	0.2121D+01	0.1504D+01	-0.9301D-01	-0.1811D-03	-0.1083D-04	-0.1076D-04	-0.1276D+03	0.5395D+01	-0.4985D+02

rawem	0.2938D-01	-0.1420D+01	-0.1008D+01	0.6228D-01	0.1212D-03	0.7251D-05	0.7208D-05	0.8543D+02	-0.3613D+01	0.3338D+02		
tw	-0.1940D-01	0.9380D+00	0.6653D+00	-0.4113D-01	-0.8007D-04	-0.4788D-05	-0.4760D-05	-0.5642D+02	0.2386D+01	-0.2204D+02		
tt	0.2434D-01	-0.1177D+01	-0.8345D+00	0.5159D-01	0.1004D-03	0.6006D-05	0.5970D-05	0.7076D+02	-0.2993D+01	0.2765D+02		
t2t	0.3369D-02	-0.1629D+00	-0.1155D+00	0.7142D-02	0.1390D-04	0.8314D-06	0.8265D-06	0.9796D+01	-0.4143D+00	0.3827D+01		
tend	0.5837D-01	-0.2822D+01	-0.2001D+01	0.1237D+00	0.2408D-03	0.1440D-04	0.1432D-04	0.1697D+03	-0.7176D+01	0.6631D+02		
shonf	0.5053D+03	-0.2443D+05	-0.1732D+05	0.1071D+04	0.2085D+01	0.1247D+00	0.1239D+00	0.1469D+07	-0.6213D+05	0.5740D+06		
wd	0.8105D-02	-0.3918D+00	-0.2779D+00	0.1718D-01	0.3344D-04	0.2000D-05	0.1988D-05	0.2356D+02	-0.9965D+00	0.9207D+01		
sat	0.1292D-01	-0.6244D+00	-0.4429D+00	0.2738D-01	0.5330D-04	0.3188D-05	0.3169D-05	0.3756D+02	-0.1588D+01	0.1467D+02		
shd	0.2918D-01	-0.1411D+01	-0.1000D+01	0.6185D-01	0.1204D-03	0.7200D-05	0.7158D-05	0.8484D+02	-0.3588D+01	0.3315D+02		
constant	-0.4755D-04	0.2299D-02	0.1630D-02	-0.1008D-03	-0.1962D-06	-0.1173D-07	-0.1166D-07	-0.1383D+00	0.5846D-02	-0.5402D-01		
=====												
X(l)	X(k)	ant11	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt	
=====												
tlk	-0.3574D+03	0.1045D+03	-0.2290D+03	0.5598D+02	-0.1850D+05	-0.8718D-02	-0.2279D+02	0.3403D+02	-0.5154D+02	0.4109D+02		
rfk	0.7392D+01	-0.2161D+01	0.4737D+01	-0.1158D+01	0.3827D+03	0.1803D-03	0.4714D+00	-0.7040D+00	0.1066D+01	-0.8499D+00		
sfk	0.1042D+02	-0.3046D+01	0.6679D+01	-0.1633D+01	0.5396D+03	0.2542D-03	0.6647D+00	-0.9926D+00	0.1503D+01	-0.1198D+01		
csfmr	-0.1686D+03	0.4928D+02	-0.1080D+03	0.2641D+02	-0.8728D+04	-0.4113D-02	-0.1075D+02	0.1606D+02	-0.2431D+02	0.1938D+02		
rscmp	-0.8661D+05	0.2531D+05	-0.5550D+05	0.1357D+05	-0.4484D+07	-0.2113D+01	-0.5523D+04	0.8248D+04	-0.1249D+05	0.9958D+04		
ex7	-0.1448D+07	0.4233D+06	-0.9281D+06	0.2269D+06	-0.7497D+08	-0.3533D+02	-0.9236D+05	0.1379D+06	-0.2088D+06	0.1665D+06		
ex8	-0.1457D+07	0.4258D+06	-0.9336D+06	0.2282D+06	-0.7542D+08	-0.3554D+02	-0.9291D+05	0.1387D+06	-0.2101D+06	0.1675D+06		
zsc	-0.1229D+00	0.3593D-01	-0.7877D-01	0.1925D-01	-0.6363D+01	-0.2998D-05	-0.7838D-02	0.1171D-01	-0.1772D-01	0.1413D-01		
str	0.2906D+01	-0.8495D+00	0.1863D+01	-0.4553D+00	0.1505D+03	0.7090D-04	0.1854D+00	-0.2768D+00	0.4191D+00	-0.3342D+00		
ant	-0.3146D+00	0.9195D-01	-0.2016D+00	0.4928D-01	-0.1629D+02	-0.7674D-05	-0.2006D-01	0.2996D-01	-0.4537D-01	0.3617D-01		
ant11	0.1000D+01	-0.2923D+00	0.6409D+00	-0.1567D+00	0.5177D+02	0.2439D-04	0.6377D-01	-0.9523D-01	0.1442D+00	-0.1150D+00		
struct1	-0.3421D+01	0.1000D+01	-0.2193D+01	0.5359D+00	-0.1771D+03	-0.8346D-04	-0.2182D+00	0.3258D+00	-0.4934D+00	0.3934D+00		
cheat2	0.1560D+01	-0.4561D+00	0.1000D+01	-0.2444D+00	0.8078D+02	0.3807D-04	0.9951D-01	-0.1486D+00	0.2250D+00	-0.1794D+00		
cardex	-0.6384D+01	0.1866D+01	-0.4091D+01	0.1000D+01	-0.3305D+03	-0.1557D-03	-0.4071D+00	0.6079D+00	-0.9206D+00	0.7340D+00		
fscd	0.1932D-01	-0.5646D-02	0.1238D-01	-0.3026D-02	0.1000D+01	0.4712D-06	0.1232D-02	-0.1840D-02	0.2786D-02	-0.2221D-02		
nc	0.4099D+05	-0.1198D+05	0.2627D+05	-0.6421D+04	0.2122D+07	0.1000D+01	0.2614D+04	-0.3904D+04	0.5912D+04	-0.4713D+04		
p	0.1568D+02	-0.4583D+01	0.1005D+02	-0.2456D+01	0.8118D+03	0.3825D-03	0.1000D+01	-0.1493D+01	0.2261D+01	-0.1803D+01		
rawem	-0.1050D+02	0.3069D+01	-0.6729D+01	0.1645D+01	-0.5436D+03	-0.2562D-03	-0.6697D+00	0.1000D+01	-0.1514D+01	0.1207D+01		
tw	0.6934D+01	-0.2027D+01	0.4444D+01	-0.1086D+01	0.3590D+03	0.1692D-03	0.4422D+00	-0.6604D+00	0.1000D+01	-0.7973D+00		
tt	-0.8698D+01	0.2542D+01	-0.5574D+01	0.1362D+01	-0.4503D+03	-0.2122D-03	-0.5547D+00	0.8283D+00	-0.1254D+01	0.1000D+01		
t2t	-0.1204D+01	0.3519D+00	-0.7716D+00	0.1886D+00	-0.6233D+02	-0.2937D-04	-0.7678D-01	0.1147D+00	-0.1736D+00	0.1384D+00		
tend	-0.2086D+02	0.6097D+01	-0.1337D+02	0.3267D+01	-0.1080D+04	-0.5088D-03	-0.1330D+01	0.1986D+01	-0.3008D+01	0.2398D+01		
shonf	-0.1806D+06	0.5278D+05	-0.1157D+06	0.2829D+05	-0.9348D+07	-0.4405D+01	-0.1152D+05	0.1720D+05	-0.2604D+05	0.2076D+05		
wd	-0.2896D+01	0.8466D+00	-0.1856D+01	0.4537D+00	-0.1499D+03	-0.7065D-04	-0.1847D+00	0.2758D+00	-0.4177D+00	0.3330D+00		
sat	-0.4616D+01	0.1349D+01	-0.2958D+01	0.7231D+00	-0.2390D+03	-0.1126D-03	-0.2944D+00	0.4396D+00	-0.6657D+00	0.5307D+00		
shd	-0.1043D+02	0.3048D+01	-0.6682D+01	0.1633D+01	-0.5398D+03	-0.2544D-03	-0.6650D+00	0.9930D+00	-0.1504D+01	0.1199D+01		
constant	0.1699D-01	-0.4967D-02	0.1089D-01	-0.2662D-02	0.8797D+00	0.4145D-06	0.1084D-02	-0.1618D-02	0.2450D-02	-0.1954D-02		
=====												
X(l)	X(k)	t2t	tend	shonf	wd	sat	shd	constant				
=====												
tlk	0.2968D+03	0.1713D+02	0.1979D-02	0.1234D+03	0.7742D+02	0.3427D+02	-0.2103D+05					
rfk	-0.6140D+01	-0.3544D+00	-0.4094D-04	-0.2552D+01	-0.1601D+01	-0.7089D+00	0.4350D+03					
sfk	-0.8656D+01	-0.4997D+00	-0.5772D-04	-0.3598D+01	-0.2258D+01	-0.9995D+00	0.6134D+03					
csfmr	0.1400D+03	0.8083D+01	0.9337D-03	0.5821D+02	0.3652D+02	0.1617D+02	-0.9922D+04					
rscmp	0.7193D+05	0.4152D+04	0.4796D+00	0.2990D+05	0.1876D+05	0.8306D+04	-0.5097D+07					
ex7	0.1203D+07	0.6943D+05	0.8020D+01	0.5000D+06	0.3137D+06	0.1389D+06	-0.8523D+08					
ex8	0.1210D+07	0.6984D+05	0.8068D+01	0.5030D+06	0.3156D+06	0.1397D+06	-0.8573D+08					
zsc	0.1021D+00	0.5893D-02	0.6807D-06	0.4244D-01	0.2663D-01	0.1179D-01	-0.7233D+01					
str	-0.2414D+01	-0.1393D+00	-0.1610D-04	-0.1004D+01	-0.6296D+00	-0.2787D+00	0.1710D+03					

ant	0.2613D+00	0.1508D-01	0.1742D-05	0.1086D+00	0.6815D-01	0.3017D-01	-0.1851D+02
ant11	-0.8306D+00	-0.4794D-01	-0.5538D-05	-0.3453D+00	-0.2166D+00	-0.9590D-01	0.5885D+02
struct1	0.2842D+01	0.1640D+00	0.1895D-04	0.1181D+01	0.7411D+00	0.3281D+00	-0.2013D+03
cheat2	-0.1296D+01	-0.7481D-01	-0.8642D-05	-0.5388D+00	-0.3380D+00	-0.1496D+00	0.9183D+02
cardex	0.5302D+01	0.3061D+00	0.3535D-04	0.2204D+01	0.1383D+01	0.6122D+00	-0.3757D+03
fscd	-0.1604D-01	-0.9261D-03	-0.1070D-06	-0.6669D-02	-0.4184D-02	-0.1852D-02	0.1137D+01
nc	-0.3405D+05	-0.1965D+04	-0.2270D+00	-0.1415D+05	-0.8880D+04	-0.3931D+04	0.2412D+07
p	-0.1302D+02	-0.7518D+00	-0.8684D-04	-0.5414D+01	-0.3397D+01	-0.1504D+01	0.9228D+03
rawem	0.8721D+01	0.5034D+00	0.5815D-04	0.3625D+01	0.2275D+01	0.1007D+01	-0.6180D+03
tw	-0.5759D+01	-0.3325D+00	-0.3840D-04	-0.2394D+01	-0.1502D+01	-0.6650D+00	0.4081D+03
tt	0.7224D+01	0.4170D+00	0.4817D-04	0.3003D+01	0.1884D+01	0.8341D+00	-0.5119D+03
t2t	0.1000D+01	0.5772D-01	0.6668D-05	0.4157D+00	0.2608D+00	0.1155D+00	-0.7086D+02
tend	0.1732D+02	0.1000D+01	0.1155D-03	0.7202D+01	0.4518D+01	0.2000D+01	-0.1228D+04
shonf	0.1500D+06	0.8657D+04	0.1000D+01	0.6234D+05	0.3912D+05	0.1732D+05	-0.1063D+08
wd	0.2406D+01	0.1389D+00	0.1604D-04	0.1000D+01	0.6274D+00	0.2778D+00	-0.1704D+03
sat	0.3834D+01	0.2213D+00	0.2557D-04	0.1594D+01	0.1000D+01	0.4427D+00	-0.2717D+03
shd	0.8661D+01	0.4999D+00	0.5775D-04	0.3600D+01	0.2259D+01	0.1000D+01	-0.6137D+03
constant	-0.1411D-01	-0.8147D-03	-0.9411D-07	-0.5867D-02	-0.3681D-02	-0.1630D-02	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106665D+07
STD.ERROR	0.8078877D+06	0.7693359D+06
SKEWNESS	-0.6058193	-0.8194342

E(y) at the means : 0.3106665D+07

Sig(y) at the means : 0.2458635D+06

C.o.V. at the means : 0.0791406

Gam(y) at the means : -0.0011349

Pearson-R2 : 0.9068398

Pearson-R2 bar : 0.8897823

Pseudo-(1)-R2 : 0.9068398

Pseudo-(1)-R2 bar : 0.8897823

Error Variance : 0.6044424D+11

Log-likelihood : -0.2337512D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

Variant sch_bcl
1 500 0.1D+01 0.1D-06
0.10000D+01
0.10000D+01
0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)
0.2690738768D+01 0.10000D+01

new absolute minimum , parameters for fcn entry 6 follow - - f,x(i)
-0.1398598160D+01 0.51061D+00

new absolute minimum , parameters for fcn entry 8 follow - - f,x(i)
-0.1398598160D+01 0.51061D+00

step to unallowed region , parameters for fcn entry 13 follow - - x(i)
0.37731D+08

step to unallowed region , parameters for fcn entry 14 follow - - x(i)
0.18866D+08

step to unallowed region , parameters for fcn entry 15 follow - - x(i)
0.94328D+07

step to unallowed region , parameters for fcn entry 16 follow - - x(i)
0.47164D+07

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.1398598160D+01 0.51061D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.1398598160D+01 for entry 8 - - x(i) follows
0.51061D+00

run statistics follow - -

nfcn= 16 nst= 4

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106668D+07
STD.ERROR	0.8078877D+06	0.7693798D+06
SKEWNESS	-0.6058193	-0.7378921

E(y) at the means : 0.3142926D+07

Sig(y) at the means : 0.2462551D+06

C.o.V. at the means : 0.0783522

Gam(y) at the means : 0.1138882

Pearson-R2 : 0.9086580

Pearson-R2 bar : 0.8911670

Pseudo-(1)-R2 : 0.9197436

Pseudo-(1)-R2 bar : 0.9043753

Error Variance : 0.2652276D+05

Log-likelihood : -0.2333423D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y)	y(sample)	E(y)
								SIGMA(y)		SIGMA(y)
								GAMMA(y)		GAMMA(y)
							-first obs	13	-first obs	170
							-last obs	181	-last obs	181
1 tlk	NL	0	0.6039027D+00	-0.2348834D-06	0.1799208D+01 0.3313676D+00	0.3356 1.8225	0.0566	0.0562 0.0275 -0.0299	0.0591	0.0597 0.0292 -0.0315
2 rfk	NL	0	-0.4144887D+02	-0.8621308D-09	0.1217997D+03 0.5211041D+02	-0.3403 -0.7954	-0.0143	-0.0142 -0.0070 0.0076	-0.0114	-0.0115 -0.0056 0.0061
3 sfk	NL	0	-0.2108979D+02	-0.3273243D-08	0.6269731D+02 0.8730379D+01	-0.3364 -2.4157	-0.0275	-0.0273 -0.0134 0.0145	-0.0426	-0.0430 -0.0211 0.0227
4 csfmr	NL	0	0.1311476D+01	-0.3040809D-07	0.4070792D+01 0.1061051D+01	0.3222 1.2360	0.0159	0.0158 0.0077 -0.0084	0.0234	0.0236 0.0115 -0.0125
5 rscmp	NL	0	0.3078083D-02	-0.3851458D-03	0.8745286D-02 0.3578525D-03	0.3520 8.6015	0.4736	0.4705 0.2305 -0.2503	0.5568	0.5618 0.2752 -0.2970
6 ex7	NL	0	0.1835231D-03	-0.1295694D-03	0.5298570D-03 0.3023577D-04	0.3464 6.0697	0.0096	0.0095 0.0047 -0.0051	0.0000	0.0000 0.0000 0.0000
7 ex8	NL	0	0.2047649D-03	-0.2932203D-04	0.6167858D-03 0.1442999D-03	0.3320 1.4190	0.0024	0.0024 0.0012 -0.0013	0.0000	0.0000 0.0000 0.0000
8 zsc	NL	0	0.1821542D+04	-0.8324254D-10	0.5681457D+04 0.1009008D+04	0.3206 1.8053	0.0606	0.0602 0.0295 -0.0320	0.0000	0.0000 0.0000 0.0000
9 str	NL	0	-0.9573105D+02	-0.3113530D-09	0.2726847D+03 0.1995444D+02	-0.3511 -4.7975	-0.0121	-0.0120 -0.0059 0.0064	0.0000	0.0000 0.0000 0.0000
10 ant	NL	0	0.5964149D+03	-0.7109301D-11	0.1419192D+12 0.1408705D+12	0.0000 0.0000	0.0017	0.0017 0.0008 -0.0009	0.0000	0.0000 0.0000 0.0000
11 antl1	NL	0	-0.2640566D+03	-0.7030723D-11	0.1424456D+12 0.1424449D+12	0.0000 0.0000	-0.0008	-0.0008 -0.0004 0.0004	0.0000	0.0000 0.0000 0.0000
12 struct1	NL	0	0.1490295D+03	-0.4488380D-09	0.5616864D+03 0.3368307D+03	0.2653 0.4424	0.0267	0.0265 0.0130 -0.0141	0.0742	0.0749 0.0367 -0.0396
13 cheat2	NL	0	-0.1715236D+03	-0.1088412D-09	0.4794427D+03 0.1324774D+03	-0.3578 -1.2947	-0.0074	-0.0073 -0.0036 0.0039	-0.0854	-0.0862 -0.0422 0.0456
14 cardex	NL	0	0.2802541D+02	-0.1278344D-09	0.1625566D+03 0.1469356D+03	0.1724 0.1907	0.0014	0.0014 0.0007 -0.0008	0.0023	0.0023 0.0011 -0.0012
15 fscd	EL	1	-0.2532150D+04	0.1808062D-08	0.8938738D+04	-0.2833	-0.2920	-0.2900	-0.3029	-0.3056

					0.2299454D+04	-1.1012			-0.1421	-0.1497
									0.1543	0.1616
16 nc	EL	1	-0.2288612D+01	-0.1502724D-05	0.3311020D+01	-0.6912	-0.7100		-0.7053	-0.8992
					0.2869986D+01	-0.7974			-0.3455	-0.4405
									0.3753	0.4753
17 p	EL	1	-0.2637825D+03	-0.2724310D-07	0.5997669D+03	-0.4398	-1.5961		-1.5854	-1.7890
					0.3581052D+03	-0.7366			-0.7766	-0.8764
									0.8436	0.9457
18 rawem	EL	1	0.4713233D+02	-0.1976932D-07	0.2240936D+03	0.2103	0.2134	0.2120	0.2465	0.2486
					0.1696592D+03	0.2778		0.1038		0.1218
								-0.1128		-0.1314
19 tw	EL	1	-0.3977498D+03	-0.2439602D-08	0.9419733D+03	-0.4223	-0.3916	-0.3890	-0.4448	-0.4488
					0.4179882D+03	-0.9516		-0.1905		-0.2198
								0.2070		0.2372
20 tt	EL	1	0.2218848D+03	-0.8952691D-08	0.6149282D+03	0.3608	0.5134	0.5099	0.4984	0.5028
					0.3213176D+03	0.6905		0.2498		0.2463
								-0.2713		-0.2658
21 t2t	EL	1	0.1241361D+04	-0.5297171D-08	0.3028154D+04	0.4099	1.9438	1.9309	2.1680	2.1871
					0.9189832D+03	1.3508		0.9458		1.0714
								-1.0274		-1.1562
22 tend	EL	1	0.1235879D+03	-0.2076180D-07	0.2642372D+03	0.4677	0.6049	0.6009	0.7518	0.7584
					0.6933133D+02	1.7826		0.2943		0.3715
								-0.3197		-0.4009
23 shonf	EL	1	0.4920169D+00	-0.1230540D-05	0.3242621D+00	1.5173	0.1252	0.1243	0.1400	0.1413
					0.1823450D+00	2.6983		0.0609		0.0692
								-0.0662		-0.0747
24 wd	EL	1	0.3567920D+03	-0.8803166D-08	0.8682298D+03	0.4109	0.8140	0.8086	0.8375	0.8449
					0.1281516D+03	2.7841		0.3961		0.4139
								-0.4302		-0.4466
25 sat	EL	1	0.1222392D+03	-0.2641786D-08	0.3482088D+03	0.3511	0.1253	0.1244	0.1287	0.1298
					0.8340815D+02	1.4656		0.0610		0.0636
								-0.0662		-0.0686
26 shd	EL	1	0.5919095D+02	-0.3155136D-08	0.1633194D+03	0.3624	0.0670	0.0665	0.0687	0.0693
					0.5766710D+02	1.0264		0.0326		0.0340
								-0.0354		-0.0367
27 constant	NL	0	-0.4885004D+04	-0.1211230D-08	0.1942272D+05	-0.2515	-2.3650	-2.3493	-2.4325	-2.4540
					0.7604818D+04	-0.6424		-1.1508		-1.2021
								1.2500		1.2973
Box-cox on (x)										
28 lambda(x) 1 = lambda(y)			0.5106097D+00	0.9403866D-04	0.1914108D+00	2.6676				
						-2.5568				
Residual (w)										
29 error variance			0.2652276D+05	0.5014435D-18	0.1513442D+06	0.1752				
					0.2897508D+04	9.1536				

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	0.9083081D+03	0.9127791D+03	0.3503296D+02	-0.1759896D-04
2 rfk	-0.6234174D+05	-0.6264861D+05	-0.2404487D+04	0.1207905D-02
3 sfk	-0.3172038D+05	-0.3187652D+05	-0.1223438D+04	0.6145995D-03
4 csfmr	0.1972543D+04	0.1982253D+04	0.7607993D+02	-0.3821908D-04
5 rscmp	0.4629633D+01	0.4652421D+01	0.1785625D+00	-0.8970162D-07
6 ex7	0.2760304D+00	0.2773891D+00	0.1064634D-01	-0.5348236D-08
7 ex8	0.3079795D+00	0.3094955D+00	0.1187861D-01	-0.5967268D-08
8 zsc	0.2739715D+07	0.2753201D+07	0.1056694D+06	-0.5308345D-01
9 str	-0.1439856D+06	-0.1446943D+06	-0.5553447D+04	0.2789798D-02
10 ant	0.8970460D+06	0.9014616D+06	0.3459858D+05	-0.1738075D-01
11 antl1	-0.3971580D+06	-0.3991129D+06	-0.1531817D+05	0.7695149D-02
12 struct1	0.2241499D+06	0.2252532D+06	0.8645340D+04	-0.4343024D-02
13 cheat2	-0.2579824D+06	-0.2592523D+06	-0.9950242D+04	0.4998547D-02
14 cardex	0.4215200D+05	0.4235949D+05	0.1625780D+04	-0.8167177D-03
15 fsed	-0.1506511D+08	-0.1513927D+08	-0.5810533D+06	0.2918946D+00
16 nc	-0.7026888D+01	-0.7061477D+01	-0.2710233D+00	0.1361497D-06
17 p	-0.3525811D+05	-0.3543166D+05	-0.1359886D+04	0.6831448D-03
18 rawem	0.8318821D+04	0.8359769D+04	0.3208525D+03	-0.1611816D-03
19 tw	-0.3029902D+06	-0.3044816D+06	-0.1168617D+05	0.5870598D-02
20 tt	0.7452437D+05	0.7489121D+05	0.2874365D+04	-0.1443950D-02

21	t2t	0.6061192D+06	0.6091027D+06	0.2337769D+05	-0.1174388D-01
22	tend	0.2024126D+05	0.2034089D+05	0.7806945D+03	-0.3921852D-03
23	shonf	0.1827064D+01	0.1836058D+01	0.7046890D-01	-0.3540035D-07
24	wd	0.1214519D+06	0.1220497D+06	0.4684334D+04	-0.2353195D-02
25	sat	0.8960643D+05	0.9004750D+05	0.3456072D+04	-0.1736173D-02
26	shd	0.3946264D+05	0.3965689D+05	0.1522053D+04	-0.7646098D-03
27	constant	-0.7347357D+07	-0.7383523D+07	-0.2833836D+06	0.1423590D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2605D+02	-0.5187D+08
SIGMA(y)	0.3838D-01	0.1000D+01	-0.1991D+07
GAMMA(y)	-0.1928D-07	-0.5024D-06	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2041D+01	-0.1879D+01
SIGMA(y)	0.4898D+00	0.1000D+01	-0.9206D+00
GAMMA(y)	-0.5321D+00	-0.1086D+01	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	tlk	rfk	sfk	csfmr	rscmp	ex7	ex8	zsc	str	ant
tlk		0.1000D+01	-0.6864D+02	-0.3492D+02	0.2172D+01	0.5097D-02	0.3039D-03	0.3391D-03	0.3016D+04	-0.1585D+03	0.9876D+03
rfk		-0.1457D-01	0.1000D+01	0.5088D+00	-0.3164D-01	-0.7426D-04	-0.4428D-05	-0.4940D-05	-0.4395D+02	0.2310D+01	-0.1439D+02
sfk		-0.2863D-01	0.1965D+01	0.1000D+01	-0.6219D-01	-0.1460D-03	-0.8702D-05	-0.9709D-05	-0.8637D+02	0.4539D+01	-0.2828D+02
csfmr		0.4605D+00	-0.3160D+02	-0.1608D+02	0.1000D+01	0.2347D-02	0.1399D-03	0.1561D-03	0.1389D+04	-0.7299D+02	0.4548D+03
rscmp		0.1962D+03	-0.1347D+05	-0.6852D+04	0.4261D+03	0.1000D+01	0.5962D-01	0.6652D-01	0.5918D+06	-0.3110D+05	0.1938D+06
ex7		0.3291D+04	-0.2259D+06	-0.1149D+06	0.7146D+04	0.1677D+02	0.1000D+01	0.1116D+01	0.9925D+07	-0.5216D+06	0.3250D+07
ex8		0.2949D+04	-0.2024D+06	-0.1030D+06	0.6405D+04	0.1503D+02	0.8963D+00	0.1000D+01	0.8896D+07	-0.4675D+06	0.2913D+07
zsc		0.3315D-03	-0.2275D-01	-0.1158D-01	0.7200D-03	0.1690D-05	0.1008D-06	0.1124D-06	0.1000D+01	-0.5255D-01	0.3274D+00
str		-0.6308D-02	0.4330D+00	0.2203D+00	-0.1370D-01	-0.3215D-04	-0.1917D-05	-0.2139D-05	-0.1903D+02	0.1000D+01	-0.6230D+01
ant		0.1013D-02	-0.6950D-01	-0.3536D-01	0.2199D-02	0.5161D-05	0.3077D-06	0.3433D-06	0.3054D+01	-0.1605D+00	0.1000D+01
antl1		-0.2287D-02	0.1570D+00	0.7987D-01	-0.4967D-02	-0.1166D-04	-0.6950D-06	-0.7755D-06	-0.6898D+01	0.3625D+00	-0.2259D+01
structl		0.4052D-02	-0.2781D+00	-0.1415D+00	0.8800D-02	0.2065D-04	0.1231D-05	0.1374D-05	0.1222D+02	-0.6424D+00	0.4002D+01
cheat2		-0.3521D-02	0.2417D+00	0.1230D+00	-0.7646D-02	-0.1795D-04	-0.1070D-05	-0.1194D-05	-0.1062D+02	0.5581D+00	-0.3477D+01
cardex		0.2155D-01	-0.1479D+01	-0.7525D+00	0.4680D-01	0.1098D-03	0.6548D-05	0.7306D-05	0.6500D+02	-0.3416D+01	0.2128D+02
fscd		-0.6029D-04	0.4138D-02	0.2106D-02	-0.1309D-03	-0.3073D-06	-0.1832D-07	-0.2044D-07	-0.1819D+00	0.9558D-02	-0.5954D-01
nc		-0.1293D+03	0.8872D+04	0.4514D+04	-0.2807D+03	-0.6588D+00	-0.3928D-01	-0.4383D-01	-0.3899D+06	0.2049D+05	-0.1277D+06
p		-0.2576D-01	0.1768D+01	0.8997D+00	-0.5595D-01	-0.1313D-03	-0.7829D-05	-0.8735D-05	-0.7770D+02	0.4084D+01	-0.2544D+02
rawem		0.1092D+00	-0.7494D+01	-0.3813D+01	0.2371D+00	0.5565D-03	0.3318D-04	0.3702D-04	0.3293D+03	-0.1731D+02	0.1078D+03
tw		-0.2998D-02	0.2058D+00	0.1047D+00	-0.6510D-02	-0.1528D-04	-0.9110D-06	-0.1016D-05	-0.9042D+01	0.4752D+00	-0.2961D+01
tt		0.1219D-01	-0.8365D+00	-0.4256D+00	0.2647D-01	0.6212D-04	0.3704D-05	0.4133D-05	0.3676D+02	-0.1932D+01	0.1204D+02
t2t		0.1499D-02	-0.1029D+00	-0.5233D-01	0.3254D-02	0.7638D-05	0.4554D-06	0.5081D-06	0.4520D+01	-0.2376D+00	0.1480D+01
tend		0.4487D-01	-0.3080D+01	-0.1567D+01	0.9745D-01	0.2287D-03	0.1364D-04	0.1522D-04	0.1354D+03	-0.7113D+01	0.4432D+02
shonf		0.4971D+03	-0.3412D+05	-0.1736D+05	0.1080D+04	0.2534D+01	0.1511D+00	0.1686D+00	0.1500D+07	-0.7881D+05	0.4910D+06
wd		0.7479D-02	-0.5133D+00	-0.2612D+00	0.1624D-01	0.3812D-04	0.2273D-05	0.2536D-05	0.2256D+02	-0.1186D+01	0.7386D+01
sat		0.1014D-01	-0.6957D+00	-0.3540D+00	0.2201D-01	0.5167D-04	0.3080D-05	0.3437D-05	0.3057D+02	-0.1607D+01	0.1001D+02
shd		0.2302D-01	-0.1580D+01	-0.8038D+00	0.4999D-01	0.1173D-03	0.6995D-05	0.7804D-05	0.6943D+02	-0.3649D+01	0.2273D+02

constant	-0.1236D-03	0.8485D-02	0.4317D-02	-0.2685D-03	-0.6301D-06	-0.3757D-07	-0.4192D-07	-0.3729D+00	0.1960D-01	-0.1221D+00
X(k)	antl1	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt
X(l)										
tlk	-0.4373D+03	0.2468D+03	-0.2840D+03	0.4641D+02	-0.1659D+05	-0.7736D-02	-0.3882D+02	0.9159D+01	-0.3336D+03	0.8205D+02
rfk	0.6371D+01	-0.3596D+01	0.4138D+01	-0.6761D+00	0.2417D+03	0.1127D-03	0.5656D+00	-0.1334D+00	0.4860D+01	-0.1195D+01
sfk	0.1252D+02	-0.7066D+01	0.8133D+01	-0.1329D+01	0.4749D+03	0.2215D-03	0.1112D+01	-0.2623D+00	0.9552D+01	-0.2349D+01
csfmr	-0.2013D+03	0.1136D+03	-0.1308D+03	0.2137D+02	-0.7637D+04	-0.3562D-02	-0.1787D+02	0.4217D+01	-0.1536D+03	0.3778D+02
rscmp	-0.8579D+05	0.4842D+05	-0.5572D+05	0.9105D+04	-0.3254D+07	-0.1518D+01	-0.7616D+04	0.1797D+04	-0.6545D+05	0.1610D+05
ex7	-0.1439D+07	0.8120D+06	-0.9346D+06	0.1527D+06	-0.5458D+08	-0.2546D+02	-0.1277D+06	0.3014D+05	-0.1098D+07	0.2700D+06
ex8	-0.1290D+07	0.7278D+06	-0.8377D+06	0.1369D+06	-0.4892D+08	-0.2282D+02	-0.1145D+06	0.2701D+05	-0.9838D+06	0.2420D+06
zsc	-0.1450D+00	0.8182D-01	-0.9416D-01	0.1539D-01	-0.5499D+01	-0.2565D-05	-0.1287D-01	0.3036D-02	-0.1106D+00	0.2720D-01
str	0.2758D+01	-0.1557D+01	0.1792D+01	-0.2928D+00	0.1046D+03	0.4880D-04	0.2449D+00	-0.5778D-01	0.2104D+01	-0.5176D+00
ant	-0.4427D+00	0.2499D+00	-0.2876D+00	0.4699D-01	-0.1679D+02	-0.7833D-05	-0.3930D-01	0.9274D-02	-0.3378D+00	0.8308D-01
antl1	0.1000D+01	-0.5644D+00	0.6496D+00	-0.1061D+00	0.3793D+02	0.1769D-04	0.8878D-01	-0.2095D-01	0.7629D+00	-0.1876D+00
struct1	-0.1772D+01	0.1000D+01	-0.1151D+01	0.1881D+00	-0.6721D+02	-0.3135D-04	-0.1573D+00	0.3711D-01	-0.1352D+01	0.3325D+00
cheat2	0.1539D+01	-0.8689D+00	0.1000D+01	-0.1634D+00	0.5840D+02	0.2724D-04	0.1367D+00	-0.3225D-01	0.1174D+01	-0.2889D+00
cardex	-0.9422D+01	0.5318D+01	-0.6120D+01	0.1000D+01	-0.3574D+03	-0.1667D-03	-0.8365D+00	0.1974D+00	-0.7188D+01	0.1768D+01
fscd	0.2636D-01	-0.1488D-01	0.1712D-01	-0.2798D-02	0.1000D+01	0.4664D-06	0.2340D-02	-0.5522D-03	0.2011D-01	-0.4947D-02
nc	0.5652D+05	-0.3190D+05	0.3671D+05	-0.5999D+04	0.2144D+07	0.1000D+01	0.5018D+04	-0.1184D+04	0.4312D+05	-0.1061D+05
p	0.1126D+02	-0.6357D+01	0.7317D+01	-0.1196D+01	0.4273D+03	0.1993D-03	0.1000D+01	-0.2359D+00	0.8593D+01	-0.2114D+01
rawem	-0.4774D+02	0.2694D+02	-0.3101D+02	0.5067D+01	-0.1811D+04	-0.8447D-03	-0.4238D+01	0.1000D+01	-0.3642D+02	0.8959D+01
tw	0.1311D+01	-0.7398D+00	0.8515D+00	-0.1391D+00	0.4972D+02	0.2319D-04	0.1164D+00	-0.2746D-01	0.1000D+01	-0.2460D+00
tt	-0.5329D+01	0.3008D+01	-0.3462D+01	0.5656D+00	-0.2022D+03	-0.9429D-04	-0.4731D+00	0.1116D+00	-0.4066D+01	0.1000D+01
t2t	-0.6552D+00	0.3698D+00	-0.4256D+00	0.6954D-01	-0.2486D+02	-0.1159D-04	-0.5817D-01	0.1372D-01	-0.4999D+00	0.1230D+00
tend	-0.1962D+02	0.1107D+02	-0.1275D+02	0.2082D+01	-0.7443D+03	-0.3472D-03	-0.1742D+01	0.4110D+00	-0.1497D+02	0.3682D+01
shonf	-0.2174D+06	0.1227D+06	-0.1412D+06	0.2307D+05	-0.8246D+07	-0.3846D+01	-0.1930D+05	0.4553D+04	-0.1658D+06	0.4079D+05
wd	-0.3270D+01	0.1846D+01	-0.2124D+01	0.3471D+00	-0.1240D+03	-0.5786D-04	-0.2903D+00	0.6849D-01	-0.2495D+01	0.6136D+00
sat	-0.4432D+01	0.2501D+01	-0.2879D+01	0.4704D+00	-0.1681D+03	-0.7842D-04	-0.3935D+00	0.9284D-01	-0.3381D+01	0.8317D+00
shd	-0.1006D+02	0.5680D+01	-0.6537D+01	0.1068D+01	-0.3818D+03	-0.1781D-03	-0.8935D+00	0.2108D+00	-0.7678D+01	0.1888D+01
constant	0.5405D-01	-0.3051D-01	0.3511D-01	-0.5737D-02	0.2050D+01	0.9564D-06	0.4799D-02	-0.1132D-02	0.4124D-01	-0.1014D-01
X(k)	t2t	tend	shonf	wd	sat	shd	constant			
X(l)										
tlk	0.6673D+03	0.2228D+02	0.2012D-02	0.1337D+03	0.9865D+02	0.4345D+02	-0.8089D+04			
rfk	-0.9723D+01	-0.3247D+00	-0.2931D-04	-0.1948D+01	-0.1437D+01	-0.6330D+00	0.1179D+03			
sfk	-0.1911D+02	-0.6381D+00	-0.5760D-04	-0.3829D+01	-0.2825D+01	-0.1244D+01	0.2316D+03			
csfmr	0.3073D+03	0.1026D+02	0.9262D-03	0.6157D+02	0.4543D+02	0.2001D+02	-0.3725D+04			
rscmp	0.1309D+06	0.4372D+04	0.3946D+00	0.2623D+05	0.1935D+05	0.8524D+04	-0.1587D+07			
ex7	0.2196D+07	0.7333D+05	0.6619D+01	0.4400D+06	0.3246D+06	0.1430D+06	-0.2662D+08			
ex8	0.1968D+07	0.6572D+05	0.5932D+01	0.3944D+06	0.2909D+06	0.1281D+06	-0.2386D+08			
zsc	0.2212D+00	0.7388D-02	0.6669D-06	0.4433D-01	0.3271D-01	0.1440D-01	-0.2682D+01			
str	-0.4210D+01	-0.1406D+00	-0.1269D-04	-0.8435D+00	-0.6223D+00	-0.2741D+00	0.5103D+02			
ant	0.6757D+00	0.2256D-01	0.2037D-05	0.1354D+00	0.9989D-01	0.4399D-01	-0.8191D+01			
antl1	-0.1526D+01	-0.5097D-01	-0.4600D-05	-0.3058D+00	-0.2256D+00	-0.9936D-01	0.1850D+02			
struct1	0.2704D+01	0.9030D-01	0.8151D-05	0.5418D+00	0.3998D+00	0.1761D+00	-0.3278D+02			
cheat2	-0.2349D+01	-0.7846D-01	-0.7082D-05	-0.4708D+00	-0.3473D+00	-0.1530D+00	0.2848D+02			
cardex	0.1438D+02	0.4802D+00	0.4334D-04	0.2881D+01	0.2126D+01	0.9362D+00	-0.1743D+03			
fscd	-0.4023D-01	-0.1344D-02	-0.1213D-06	-0.8062D-02	-0.5948D-02	-0.2619D-02	0.4877D+00			
nc	-0.8626D+05	-0.2881D+04	-0.2600D+00	-0.1728D+05	-0.1275D+05	-0.5616D+04	0.1046D+07			
p	-0.1719D+02	-0.5741D+00	-0.5182D-04	-0.3445D+01	-0.2541D+01	-0.1119D+01	0.2084D+03			
rawem	0.7286D+02	0.2433D+01	0.2196D-03	0.1460D+02	0.1077D+02	0.4744D+01	-0.8832D+03			

tw	-0.2000D+01	-0.6680D-01	-0.6030D-05	-0.4008D+00	-0.2957D+00	-0.1302D+00	0.2425D+02
tt	0.8133D+01	0.2716D+00	0.2452D-04	0.1630D+01	0.1202D+01	0.5295D+00	-0.9859D+02
t2t	0.1000D+01	0.3339D-01	0.3014D-05	0.2004D+00	0.1478D+00	0.6511D-01	-0.1212D+02
tend	0.2994D+02	0.1000D+01	0.9026D-04	0.6000D+01	0.4427D+01	0.1950D+01	-0.3630D+03
shonf	0.3317D+06	0.1108D+05	0.1000D+01	0.6647D+05	0.4904D+05	0.2160D+05	-0.4021D+07
wd	0.4991D+01	0.1667D+00	0.1504D-04	0.1000D+01	0.7378D+00	0.3249D+00	-0.6050D+02
sat	0.6764D+01	0.2259D+00	0.2039D-04	0.1355D+01	0.1000D+01	0.4404D+00	-0.8200D+02
shd	0.1536D+02	0.5129D+00	0.4630D-04	0.3078D+01	0.2271D+01	0.1000D+01	-0.1862D+03
constant	-0.8249D-01	-0.2755D-02	-0.2487D-06	-0.1653D-01	-0.1220D-01	-0.5371D-02	0.1000D+01

Log-likelihood

```

- initial value :      -2337.5120
- final value   :      -2333.4227
- ratio test    :           8.1787

```

```

Pearson-r2      :           0.9087
Pearson-r2 bar  :           0.8912
Pseudo-(1)-r2   :           0.9197
Pseudo-(1)-r2 bar :          0.9044
Std-error of (w) :          162.8581

```

```

Number of observations   first-last obs.no.
- sample      :    181           1 -    181
- estimation  :    169          13 -    181

```

CPU TIME: 0.11 sec

Output file 3: sch_bc1au.txt

```

&CARD1
NOBS   =      181,
NC      =       13,
NF      =      181,
NFP     =      181,
NOBEL   =       12,
NM       =        0,
NSTEP   =      500,
EPSI    = 1.0000000000000000E-007,
WGHT    = 1.0000000000000000
/
&CARD2
NB      =       26,
NRO     =        4,
NSL     =       14,
NGF     =        0,
MAXF    =        0,
NGV     =        1,
MAXV    =       12,
NLY     =        2,
NDM     =       -1,
NLE     =        0,
ND       =        0
/
&CARD3
NCOR    =        0,
NRES    =        0,
NPW     =        0,
NGUVW   =        0,
NPDQL   =        0,
NCOV    =        0,
NEY     =        0,
VARNAME = s_bc1au ,
N VARIANT =          3
/

```

Working space used : 13990 out of 500000

```

autocorrelation of orders:      1      3      4      12
rho initial values: 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000 0.0000000000000000E+000

```


group (x) without box-cox transformation
variable no.
1 2 3 4 5 6 7 8 9 10 11 12 13 14

group 1 (estimated lambda(x))
initial value: 1.00000000000000
variable no.
15 16 17 18 19 20 21 22 23 24 25 26

lambda(y) is set equal to lambda(x) of group no. 1
lambda(y) initial value: 1.00000000000000
upper limit for y 0.00000000000000E+000

no.	variable	minimum	mean	maximum	null obs.
	xscnfa	0.11946D+07	0.30692D+07	0.56239D+07	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	rfk	0.00000D+00	0.71459D+00	0.20581D+01	2
3	sfk	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rscmp	0.00000D+00	0.31171D+06	0.48000D+06	29
6	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	zsc	0.00000D+00	0.69971D-01	0.19910D+00	73
9	str	0.00000D+00	0.24309D+00	0.20000D+02	178
10	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
11	antl1	0.00000D+00	0.55249D-02	0.10000D+01	180
12	struct1	0.00000D+00	0.34558D+00	0.10000D+01	118
13	cheat2	0.00000D+00	0.82873D-01	0.10000D+01	166
14	cardex	0.00000D+00	0.99448D-01	0.10000D+01	163
15	fscd	0.48049D-01	0.59514D-01	0.73232D-01	0
16	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
17	p	0.12030D+03	0.13936D+03	0.16661D+03	0
18	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
19	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
20	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
21	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
22	tend	0.10000D+01	0.87122D+02	0.15500D+03	0
23	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
24	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
25	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
26	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
27	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)	COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)
	type group					-first obs -last obs	13 181	-first obs -last obs	170 181
1 tlk	NL 0	0.1047874D+04	0.1936095D+03	0.3302359D+03	3.1731	0.0653	0.0653 0.0000 0.1984	0.0701	0.0703 0.0000 0.2140
2 rfk	NL 0	-0.5065668D+05	0.7128659D+00	0.5847963D+05	-0.8662	-0.0116	-0.0116 0.0000 -0.0353	-0.0095	-0.0096 0.0000 -0.0291
3 sfk	NL 0	-0.3592992D+05	0.2689872D+01	0.1105072D+05	-3.2514	-0.0311	-0.0311 0.0000 -0.0945	-0.0496	-0.0498 0.0000 -0.1514
4 csfmr	NL 0	0.2221204D+04	0.2501124D+02	0.1239743D+04	1.7917	0.0179	0.0179 0.0000 0.0543	0.0270	0.0271 0.0000 0.0825
5 rscmp	NL 0	0.4323811D+01	0.3178287D+06	0.3651290D+00	11.8419	0.4423	0.4423 0.0000 1.3439	0.5343	0.5360 0.0000 1.6310
6 ex7	NL 0	0.2585828D+00	0.1081862D+06	0.4805589D-01	5.3809	0.0090	0.0090 0.0000 0.0274	0.0000	0.0000 0.0000 0.0000
7 ex8	NL 0	0.2570512D+00	0.2437638D+05	0.1816524D+00	1.4151	0.0020	0.0020 0.0000 0.0061	0.0000	0.0000 0.0000 0.0000
8 zsc	NL 0	0.3046750D+07	0.6872512D-01	0.8535266D+06	3.5696	0.0674	0.0674 0.0000 0.2048	0.0000	0.0000 0.0000 0.0000
9 str	NL 0	-0.1288422D+06	0.2603550D+00	0.1118485D+05	-11.5193	-0.0108	-0.0108 0.0000 -0.0328	0.0000	0.0000 0.0000 0.0000
10 ant	NL 0	0.1190409D+07	0.5917160D-02	0.2876662D+06	4.1382	0.0023	0.0023 0.0000 0.0069	0.0000	0.0000 0.0000 0.0000
11 antl1	NL 0	-0.3744721D+06	0.5917160D-02	0.3011484D+06	-1.2435	-0.0007	-0.0007 0.0000 -0.0022	0.0000	0.0000 0.0000 0.0000
12 struct1	NL 0	0.1094552D+06	0.3701183D+00	0.3098343D+06	0.3533	0.0130	0.0130 0.0000 0.0396	0.0372	0.0373 0.0000 0.1136
13 cheat2	NL 0	-0.2399829D+06	0.8875740D-01	0.2061219D+06	-1.1643	-0.0069	-0.0069 0.0000 -0.0208	-0.0816	-0.0819 0.0000 -0.2492
14 cardex	NL 0	0.5866120D+05	0.1065089D+00	0.1453406D+06	0.4036	0.0020	0.0020 0.0000 0.0061	0.0033	0.0033 0.0000 0.0102

15	fscd	EL	1	-0.1938637D+08	0.6021048D-01	0.8394865D+07	-2.3093	-0.3757	-0.3757	-0.4038	-0.4052
									0.0000		0.0000
									-1.1415		-1.2329
16	nc	EL	1	-0.9135182D+01	0.3138985D+06	0.6631562D+01	-1.3775	-0.9230	-0.9230	-1.4409	-1.4455
									-0.0001		-0.0001
									-2.8042		-4.3986
17	p	EL	1	-0.2388173D+05	0.1406331D+03	0.3368080D+05	-0.7091	-1.0811	-1.0811	-1.3287	-1.3330
									-0.0001		-0.0001
									-3.2843		-4.0561
18	rawem	EL	1	0.3566232D+05	0.7968800D+02	0.2386297D+05	1.4945	0.9148	0.9148	1.2132	1.2171
									0.0001		0.0001
									2.7791		3.7035
19	tw	EL	1	-0.5400299D+05	0.4015184D+01	0.1642368D+06	-0.3288	-0.0698	-0.0698	-0.0896	-0.0899
									0.0000		0.0000
									-0.2120		-0.2735
20	tt	EL	1	0.4305496D+05	0.2140038D+02	0.5374149D+05	0.8011	0.2966	0.2966	0.2799	0.2808
									0.0000		0.0000
									0.9010		0.8546
21	t2t	EL	1	0.3110235D+06	0.9963177D+01	0.2441552D+06	1.2739	0.9975	0.9975	1.2351	1.2391
									0.0001		0.0001
									3.0303		3.7705
22	tend	EL	1	0.1795343D+05	0.9284615D+02	0.8224375D+04	2.1830	0.5366	0.5366	0.8213	0.8239
									0.0000		0.0001
									1.6301		2.5072
23	shonf	EL	1	0.2073890D+01	0.2128346D+06	0.5550214D+00	3.7366	0.1421	0.1421	0.1770	0.1776
									0.0000		0.0000
									0.4316		0.5404
24	wd	EL	1	0.1292937D+06	0.2082249D+02	0.3326362D+05	3.8869	0.8666	0.8666	0.9161	0.9191
									0.0001		0.0001
									2.6327		2.7967
25	sat	EL	1	0.8112208D+05	0.4343195D+01	0.5389466D+05	1.5052	0.1134	0.1134	0.1196	0.1199
									0.0000		0.0000
									0.3445		0.3650
26	shd	EL	1	0.3591234D+05	0.5272189D+01	0.3811082D+05	0.9423	0.0609	0.0609	0.0641	0.0643
									0.0000		0.0000
									0.1852		0.1958
27	constant	NL	0	-0.2203789D+08	0.1000000D+01	0.9941611D+07	-2.2167	-7.0937	-7.0937	-7.4954	-7.5197
									-0.0006		-0.0006
									-21.5509		-22.8816

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	0.1047874D+04	0.1047873D+04	0.7590909D-02	-0.1162930D-05
2 rfk	-0.5065668D+05	-0.5065665D+05	-0.3669623D+00	0.5621877D-04
3 sfk	-0.3592992D+05	-0.3592990D+05	-0.2602802D+00	0.3987502D-04
4 csfmr	0.2221204D+04	0.2221203D+04	0.1609064D-01	-0.2465092D-05
5 rscmp	0.4323811D+01	0.4323808D+01	0.3132215D-04	-0.4798565D-08
6 ex7	0.2585828D+00	0.2585827D+00	0.1873201D-05	-0.2869751D-09
7 ex8	0.2570512D+00	0.2570510D+00	0.1862106D-05	-0.2852753D-09
8 zsc	0.3046750D+07	0.3046749D+07	0.2207098D+02	-0.3381283D-02
9 str	-0.1288422D+06	-0.1288421D+06	-0.9333465D+00	0.1429890D-03
10 ant	0.1190409D+07	0.1190408D+07	0.8623447D+01	-0.1321115D-02
11 antl1	-0.3744721D+06	-0.3744719D+06	-0.2712715D+01	0.4155890D-03
12 struct1	0.1094552D+06	0.1094551D+06	0.7929050D+00	-0.1214733D-03
13 cheat2	-0.2399829D+06	-0.2399828D+06	-0.1738462D+01	0.2663330D-03
14 cardex	0.5866120D+05	0.5866116D+05	0.4249479D+00	-0.6510219D-04
15 fscd	-0.1938637D+08	-0.1938636D+08	-0.1404369D+03	0.2151499D-01
16 nc	-0.9135182D+01	-0.9135177D+01	-0.6617623D-04	0.1013822D-07
17 p	-0.2388173D+05	-0.2388172D+05	-0.1730018D+00	0.2650394D-04
18 rawem	0.3566232D+05	0.3566230D+05	0.2583416D+00	-0.3957803D-04
19 tw	-0.5400299D+05	-0.5400296D+05	-0.3912034D+00	0.5993251D-04
20 tt	0.4305496D+05	0.4305493D+05	0.3118947D+00	-0.4778238D-04
21 t2t	0.3110235D+06	0.3110233D+06	0.2253087D+01	-0.3451738D-03
22 tend	0.1795343D+05	0.1795342D+05	0.1300565D+00	-0.1992471D-04
23 shonf	0.2073890D+01	0.2073889D+01	0.1502348D-04	-0.2301603D-08
24 wd	0.1292937D+06	0.1292936D+06	0.9366174D+00	-0.1434901D-03

```

25 sat      0.8112208D+05  0.8112203D+05  0.5876569D+00 -0.9002926D-04
26 shd      0.3591234D+05  0.3591232D+05  0.2601528D+00 -0.3985550D-04
27 constant -0.2203789D+08 -0.2203788D+08 -0.1596448D+03  0.2445765D-01

```

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

```

=====
row / col  E(y)      SIGMA(y)    GAMMA(y)
=====
E(y)       0.1000D+01  0.1380D+06 -0.9011D+09
SIGMA(y)   0.7244D-05  0.1000D+01 -0.6527D+04
GAMMA(y)   -0.1110D-08 -0.1532D-03  0.1000D+01

```

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

```

=====
row / col  E(y)      SIGMA(y)    GAMMA(y)
=====
E(y)       0.1000D+01  0.1092D+05  0.3292D+00
SIGMA(y)   0.9153D-04  0.1000D+01  0.3013D-04
GAMMA(y)   0.3038D+01  0.3319D+05  0.1000D+01

```

MRS of X(l) with respect to X(k) at the sample means

```

=====
X(l)      X(k)  tlk      rfk      sfk      csfmr      rscmp      ex7      ex8      zsc      str      ant
=====
tlk        0.1000D+01 -0.4834D+02 -0.3429D+02  0.2120D+01  0.4126D-02  0.2468D-03  0.2453D-03  0.2908D+04 -0.1230D+03  0.1136D+04
rfk       -0.2069D-01  0.1000D+01  0.7093D+00 -0.4385D-01 -0.8536D-04 -0.5105D-05 -0.5074D-05 -0.6015D+02  0.2543D+01 -0.2350D+02
sfk       -0.2916D-01  0.1410D+01  0.1000D+01 -0.6182D-01 -0.1203D-03 -0.7197D-05 -0.7154D-05 -0.8480D+02  0.3586D+01 -0.3313D+02
csfmr      0.4718D+00 -0.2281D+02 -0.1618D+02  0.1000D+01  0.1947D-02  0.1164D-03  0.1157D-03  0.1372D+04 -0.5801D+02  0.5359D+03
rscmp      0.2423D+03 -0.1172D+05 -0.8310D+04  0.5137D+03  0.1000D+01  0.5980D-01  0.5945D-01  0.7046D+06 -0.2980D+05  0.2753D+06
ex7        0.4052D+04 -0.1959D+06 -0.1389D+06  0.8590D+04  0.1672D+02  0.1000D+01  0.9941D+00  0.1178D+08 -0.4983D+06  0.4604D+07
ex8        0.4077D+04 -0.1971D+06 -0.1398D+06  0.8641D+04  0.1682D+02  0.1006D+01  0.1000D+01  0.1185D+08 -0.5012D+06  0.4631D+07
zsc        0.3439D-03 -0.1663D-01 -0.1179D-01  0.7290D-03  0.1419D-05  0.8487D-07  0.8437D-07  0.1000D+01 -0.4229D-01  0.3907D+00
str       -0.8133D-02  0.3932D+00  0.2789D+00 -0.1724D-01 -0.3356D-04 -0.2007D-05 -0.1995D-05 -0.2365D+02  0.1000D+01 -0.9239D+01
ant        0.8803D-03 -0.4255D-01 -0.3018D-01  0.1866D-02  0.3632D-05  0.2172D-06  0.2159D-06  0.2559D+01 -0.1082D+00  0.1000D+01
antl1     -0.2798D-02  0.1353D+00  0.9595D-01 -0.5932D-02 -0.1155D-04 -0.6905D-06 -0.6864D-06 -0.8136D+01  0.3441D+00 -0.3179D+01
structl    0.9574D-02 -0.4628D+00 -0.3283D+00  0.2029D-01  0.3950D-04  0.2362D-05  0.2348D-05  0.2784D+02 -0.1177D+01  0.1088D+02
cheat2    -0.4366D-02  0.2111D+00  0.1497D+00 -0.9256D-02 -0.1802D-04 -0.1078D-05 -0.1071D-05 -0.1270D+02  0.5369D+00 -0.4960D+01
cardex     0.1786D-01 -0.8635D+00 -0.6125D+00  0.3786D-01  0.7371D-04  0.4408D-05  0.4382D-05  0.5194D+02 -0.2196D+01  0.2029D+02
fscd      -0.5405D-04  0.2613D-02  0.1853D-02 -0.1146D-03 -0.2230D-06 -0.1334D-07 -0.1326D-07 -0.1572D+00  0.6646D-02 -0.6140D-01
nc        -0.1147D+03  0.5545D+04  0.3933D+04 -0.2431D+03 -0.4733D+00 -0.2831D-01 -0.2814D-01 -0.3335D+06  0.1410D+05 -0.1303D+06
p         -0.4388D-01  0.2121D+01  0.1504D+01 -0.9301D-01 -0.1811D-03 -0.1083D-04 -0.1076D-04 -0.1276D+03  0.5395D+01 -0.4985D+02
rawem      0.2938D-01 -0.1420D+01 -0.1008D+01  0.6228D-01  0.1212D-03  0.7251D-05  0.7208D-05  0.8543D+02 -0.3613D+01  0.3338D+02
tw        -0.1940D-01  0.9380D+00  0.6653D+00 -0.4113D-01 -0.8007D-04 -0.4788D-05 -0.4760D-05 -0.5642D+02  0.2386D+01 -0.2204D+02
tt         0.2434D-01 -0.1177D+01 -0.8345D+00  0.5159D-01  0.1004D-03  0.6006D-05  0.5970D-05  0.7076D+02 -0.2993D+01  0.2765D+02
t2t        0.3369D-02 -0.1629D+00 -0.1155D+00  0.7142D-02  0.1390D-04  0.8314D-06  0.8265D-06  0.9796D+01 -0.4143D+00  0.3827D+01
tend       0.5837D-01 -0.2822D+01 -0.2001D+01  0.1237D+00  0.2408D-03  0.1440D-04  0.1432D-04  0.1697D+03 -0.7176D+01  0.6631D+02
shonf      0.5053D+03 -0.2443D+05 -0.1732D+05  0.1071D+04  0.2085D+01  0.1247D+00  0.1239D+00  0.1469D+07 -0.6213D+05  0.5740D+06
wd         0.8105D-02 -0.3918D+00 -0.2779D+00  0.1718D-01  0.3344D-04  0.2000D-05  0.1988D-05  0.2356D+02 -0.9965D+00  0.9207D+01
sat        0.1292D-01 -0.6244D+00 -0.4429D+00  0.2738D-01  0.5330D-04  0.3188D-05  0.3169D-05  0.3756D+02 -0.1588D+01  0.1467D+02
shd        0.2918D-01 -0.1411D+01 -0.1000D+01  0.6185D-01  0.1204D-03  0.7200D-05  0.7158D-05  0.8484D+02 -0.3588D+01  0.3315D+02
constant  -0.4755D-04  0.2299D-02  0.1630D-02 -0.1008D-03 -0.1962D-06 -0.1173D-07 -0.1166D-07 -0.1383D+00  0.5846D-02 -0.5402D-01
=====
X(l)      X(k)  antl1    structl    cheat2    cardex    fscd      nc      p      rawem    tw      tt
=====
tlk       -0.3574D+03  0.1045D+03 -0.2290D+03  0.5598D+02 -0.1850D+05 -0.8718D-02 -0.2279D+02  0.3403D+02 -0.5154D+02  0.4109D+02

```

rfk	0.7392D+01	-0.2161D+01	0.4737D+01	-0.1158D+01	0.3827D+03	0.1803D-03	0.4714D+00	-0.7040D+00	0.1066D+01	-0.8499D+00		
sfk	0.1042D+02	-0.3046D+01	0.6679D+01	-0.1633D+01	0.5396D+03	0.2542D-03	0.6647D+00	-0.9926D+00	0.1503D+01	-0.1198D+01		
csfmr	-0.1686D+03	0.4928D+02	-0.1080D+03	0.2641D+02	-0.8728D+04	-0.4113D-02	-0.1075D+02	0.1606D+02	-0.2431D+02	0.1938D+02		
rscmp	-0.8661D+05	0.2531D+05	-0.5550D+05	0.1357D+05	-0.4484D+07	-0.2113D+01	-0.5523D+04	0.8248D+04	-0.1249D+05	0.9958D+04		
ex7	-0.1448D+07	0.4233D+06	-0.9281D+06	0.2269D+06	-0.7497D+08	-0.3533D+02	-0.9236D+05	0.1379D+06	-0.2088D+06	0.1665D+06		
ex8	-0.1457D+07	0.4258D+06	-0.9336D+06	0.2282D+06	-0.7542D+08	-0.3554D+02	-0.9291D+05	0.1387D+06	-0.2101D+06	0.1675D+06		
zsc	-0.1229D+00	0.3593D-01	-0.7877D-01	0.1925D-01	-0.6363D+01	-0.2998D-05	-0.7838D-02	0.1171D-01	-0.1772D-01	0.1413D-01		
str	0.2906D+01	-0.8495D+00	0.1863D+01	-0.4553D+00	0.1505D+03	0.7090D-04	0.1854D+00	-0.2768D+00	0.4191D+00	-0.3342D+00		
ant	-0.3146D+00	0.9195D-01	-0.2016D+00	0.4928D-01	-0.1629D+02	-0.7674D-05	-0.2006D-01	0.2996D-01	-0.4537D-01	0.3617D-01		
antl1	0.1000D+01	-0.2923D+00	0.6409D+00	-0.1567D+00	0.5177D+02	0.2439D-04	0.6377D-01	-0.9523D-01	0.1442D+00	-0.1150D+00		
struct1	-0.3421D+01	0.1000D+01	-0.2193D+01	0.5359D+00	-0.1771D+03	-0.8346D-04	-0.2182D+00	0.3258D+00	-0.4934D+00	0.3934D+00		
cheat2	0.1560D+01	-0.4561D+00	0.1000D+01	-0.2444D+00	0.8078D+02	0.3807D-04	0.9951D-01	-0.1486D+00	0.2250D+00	-0.1794D+00		
cardex	-0.6384D+01	0.1866D+01	-0.4091D+01	0.1000D+01	-0.3305D+03	-0.1557D-03	-0.4071D+00	0.6079D+00	-0.9206D+00	0.7340D+00		
fscd	0.1932D-01	-0.5646D-02	0.1238D-01	-0.3026D-02	0.1000D+01	0.4712D-06	0.1232D-02	-0.1840D-02	0.2786D-02	-0.2221D-02		
nc	0.4099D+05	-0.1198D+05	0.2627D+05	-0.6421D+04	0.2122D+07	0.1000D+01	0.2614D+04	-0.3904D+04	0.5912D+04	-0.4713D+04		
p	0.1568D+02	-0.4583D+01	0.1005D+02	-0.2456D+01	0.8118D+03	0.3825D-03	0.1000D+01	-0.1493D+01	0.2261D+01	-0.1803D+01		
rawem	-0.1050D+02	0.3069D+01	-0.6729D+01	0.1645D+01	-0.5436D+03	-0.2562D-03	-0.6697D+00	0.1000D+01	-0.1514D+01	0.1207D+01		
tw	0.6934D+01	-0.2027D+01	0.4444D+01	-0.1086D+01	0.3590D+03	0.1692D-03	0.4422D+00	-0.6604D+00	0.1000D+01	-0.7973D+00		
tt	-0.8698D+01	0.2542D+01	-0.5574D+01	0.1362D+01	-0.4503D+03	-0.2122D-03	-0.5547D+00	0.8283D+00	-0.1254D+01	0.1000D+01		
t2t	-0.1204D+01	0.3519D+00	-0.7716D+00	0.1886D+00	-0.6233D+02	-0.2937D-04	-0.7678D-01	0.1147D+00	-0.1736D+00	0.1384D+00		
tend	-0.2086D+02	0.6097D+01	-0.1337D+02	0.3267D+01	-0.1080D+04	-0.5088D-03	-0.1330D+01	0.1986D+01	-0.3008D+01	0.2398D+01		
shonf	-0.1806D+06	0.5278D+05	-0.1157D+06	0.2829D+05	-0.9348D+07	-0.4405D+01	-0.1152D+05	0.1720D+05	-0.2604D+05	0.2076D+05		
wd	-0.2896D+01	0.8466D+00	-0.1856D+01	0.4537D+00	-0.1499D+03	-0.7065D-04	-0.1847D+00	0.2758D+00	-0.4177D+00	0.3330D+00		
sat	-0.4616D+01	0.1349D+01	-0.2958D+01	0.7231D+00	-0.2390D+03	-0.1126D-03	-0.2944D+00	0.4396D+00	-0.6657D+00	0.5307D+00		
shd	-0.1043D+02	0.3048D+01	-0.6682D+01	0.1633D+01	-0.5398D+03	-0.2544D-03	-0.6650D+00	0.9930D+00	-0.1504D+01	0.1199D+01		
constant	0.1699D-01	-0.4967D-02	0.1089D-01	-0.2662D-02	0.8797D+00	0.4145D-06	0.1084D-02	-0.1618D-02	0.2450D-02	-0.1954D-02		
=====												
X(l)	X(k)	t2t	tend	shonf	wd	sat	shd	constant				
=====												
tlk	0.2968D+03	0.1713D+02	0.1979D-02	0.1234D+03	0.7742D+02	0.3427D+02	-0.2103D+05					
rfk	-0.6140D+01	-0.3544D+00	-0.4094D-04	-0.2552D+01	-0.1601D+01	-0.7089D+00	0.4350D+03					
sfk	-0.8656D+01	-0.4997D+00	-0.5772D-04	-0.3598D+01	-0.2258D+01	-0.9995D+00	0.6134D+03					
csfmr	0.1400D+03	0.8083D+01	0.9337D-03	0.5821D+02	0.3652D+02	0.1617D+02	-0.9922D+04					
rscmp	0.7193D+05	0.4152D+04	0.4796D+00	0.2990D+05	0.1876D+05	0.8306D+04	-0.5097D+07					
ex7	0.1203D+07	0.6943D+05	0.8020D+01	0.5000D+06	0.3137D+06	0.1389D+06	-0.8523D+08					
ex8	0.1210D+07	0.6984D+05	0.8068D+01	0.5030D+06	0.3156D+06	0.1397D+06	-0.8573D+08					
zsc	0.1021D+00	0.5893D-02	0.6807D-06	0.4244D-01	0.2663D-01	0.1179D-01	-0.7233D+01					
str	-0.2414D+01	-0.1393D+00	-0.1610D-04	-0.1004D+01	-0.6296D+00	-0.2787D+00	0.1710D+03					
ant	0.2613D+00	0.1508D-01	0.1742D-05	0.1086D+00	0.6815D-01	0.3017D-01	-0.1851D+02					
antl1	-0.8306D+00	-0.4794D-01	-0.5538D-05	-0.3453D+00	-0.2166D+00	-0.9590D-01	0.5885D+02					
struct1	0.2842D+01	0.1640D+00	0.1895D-04	0.1181D+01	0.7411D+00	0.3281D+00	-0.2013D+03					
cheat2	-0.1296D+01	-0.7481D-01	-0.8642D-05	-0.5388D+00	-0.3380D+00	-0.1496D+00	0.9183D+02					
cardex	0.5302D+01	0.3061D+00	0.3535D-04	0.2204D+01	0.1383D+01	0.6122D+00	-0.3757D+03					
fscd	-0.1604D-01	-0.9261D-03	-0.1070D-06	-0.6669D-02	-0.4184D-02	-0.1852D-02	0.1137D+01					
nc	-0.3405D+05	-0.1965D+04	-0.2270D+00	-0.1415D+05	-0.8880D+04	-0.3931D+04	0.2412D+07					
p	-0.1302D+02	-0.7518D+00	-0.8684D-04	-0.5414D+01	-0.3397D+01	-0.1504D+01	0.9228D+03					
rawem	0.8721D+01	0.5034D+00	0.5815D-04	0.3625D+01	0.2275D+01	0.1007D+01	-0.6180D+03					
tw	-0.5759D+01	-0.3325D+00	-0.3840D-04	-0.2394D+01	-0.1502D+01	-0.6650D+00	0.4081D+03					
tt	0.7224D+01	0.4170D+00	0.4817D-04	0.3003D+01	0.1884D+01	0.8341D+00	-0.5119D+03					
t2t	0.1000D+01	0.5772D-01	0.6668D-05	0.4157D+00	0.2608D+00	0.1155D+00	-0.7086D+02					
tend	0.1732D+02	0.1000D+01	0.1155D-03	0.7202D+01	0.4518D+01	0.2000D+01	-0.1228D+04					

shonf	0.1500D+06	0.8657D+04	0.1000D+01	0.6234D+05	0.3912D+05	0.1732D+05	-0.1063D+08
wd	0.2406D+01	0.1389D+00	0.1604D-04	0.1000D+01	0.6274D+00	0.2778D+00	-0.1704D+03
sat	0.3834D+01	0.2213D+00	0.2557D-04	0.1594D+01	0.1000D+01	0.4427D+00	-0.2717D+03
shd	0.8661D+01	0.4999D+00	0.5775D-04	0.3600D+01	0.2259D+01	0.1000D+01	-0.6137D+03
constant	-0.1411D-01	-0.8147D-03	-0.9411D-07	-0.5867D-02	-0.3681D-02	-0.1630D-02	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106665D+07
STD.ERROR	0.8078877D+06	0.7693359D+06
SKWENESS	-0.6058193	-0.8194342

E(y) at the means : 0.3106665D+07

Sig(y) at the means : 0.2458635D+06

C.o.V. at the means : 0.0791406

Gam(y) at the means : -0.0011349

Pearson-R2 : 0.9068398

Pearson-R2 bar : 0.8897823

Pseudo-(1)-R2 : 0.9068398

Pseudo-(1)-R2 bar : 0.8897823

Error Variance : 0.6044424D+11

Log-likelihood : -0.2337512D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

Variant sch_bclau				
5	500	0.1D+01	0.1D-06	
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.10000D+01
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)
0.2690738768D+01 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.10000D+01

new absolute minimum , parameters for fcn entry 5 follow - - f,x(i)
-0.2657534448D+02 0.16380D+00 -0.19962D+00 -0.20155D+00 0.43296D+00 0.90965D+00

new absolute minimum , parameters for fcn entry 9 follow - - f,x(i)
-0.2757630505D+02 0.12948D+00 -0.26177D+00 -0.10469D+00 0.47769D+00 0.85092D+00

new absolute minimum , parameters for fcn entry 12 follow - - f,x(i)
-0.2805850813D+02 0.16846D+00 -0.34633D+00 -0.68316D-01 0.44009D+00 0.78052D+00

new absolute minimum , parameters for fcn entry 15 follow - - f,x(i)
-0.2815507889D+02 0.13961D+00 -0.35134D+00 -0.92624D-01 0.42629D+00 0.71925D+00

new absolute minimum , parameters for fcn entry 17 follow - - f,x(i)
-0.2815855914D+02 0.14407D+00 -0.34533D+00 -0.90127D-01 0.42651D+00 0.71402D+00

new absolute minimum , parameters for fcn entry 20 follow - - f,x(i)
-0.2820203569D+02 0.13819D+00 -0.35872D+00 -0.85461D-01 0.40229D+00 0.72250D+00

new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)
-0.2820221940D+02 0.13886D+00 -0.35810D+00 -0.86404D-01 0.40188D+00 0.72336D+00

new absolute minimum , parameters for fcn entry 24 follow - - f,x(i)
-0.2820222029D+02 0.13897D+00 -0.35812D+00 -0.86296D-01 0.40189D+00 0.72343D+00

new absolute minimum , parameters for fcn entry 25 follow - - f,x(i)
-0.2820222029D+02 0.13897D+00 -0.35812D+00 -0.86296D-01 0.40189D+00 0.72343D+00

new absolute minimum , parameters for fcn entry 26 follow - - f,x(i)
-0.2820222029D+02 0.13897D+00 -0.35812D+00 -0.86296D-01 0.40189D+00 0.72343D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - -

therefore the run has been terminated
-0.2820222029D+02 0.13897D+00 -0.35812D+00 -0.86296D-01 0.40189D+00 0.72343D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.2820222029D+02 for entry 26 - - x(i) follows
0.13897D+00 -0.35812D+00 -0.86296D-01 0.40189D+00 0.72343D+00

run statistics follow - -

nfcn= 30 nst= 11

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3105148D+07
STD.ERROR	0.8078877D+06	0.7644531D+06
SKEWNESS	-0.6058193	-0.6171300

E(y) at the means : 0.3103639D+07

Sig(y) at the means : 0.2070491D+06

C.o.V. at the means : 0.0667117

Gam(y) at the means : 0.0535100

Pearson-R2 : 0.9342522

Pearson-R2 bar : 0.9193749

Pseudo-(1)-R2 : 0.8692585

Pseudo-(1)-R2 bar : 0.8396747

Error Variance : 0.1100118D+08

Log-likelihood : -0.2306619D+04

FINAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y)	y(sample)	E(y)
								SIGMA(y)		SIGMA(y)
								GAMMA(y)		GAMMA(y)
							-first obs	13	-first obs	170
							-last obs	181	-last obs	181
1 tlk	NL	0	0.1751403D+02	0.1436615D-08	0.6035203D+02	0.2902	0.0682	0.0682	0.0721	0.0730
					0.6868686D+01	2.5498		0.0189		0.0202
								-0.0565		-0.0591
2 rfk	NL	0	-0.8980370D+03	0.5307603D-11	0.3120294D+04	-0.2878	-0.0129	-0.0129	-0.0104	-0.0105
					0.8383894D+03	-1.0711		-0.0036		-0.0029
								0.0107		0.0085
3 sfk	NL	0	-0.2376040D+03	0.2068114D-10	0.8070974D+03	-0.2944	-0.0128	-0.0129	-0.0202	-0.0204
					0.1569341D+03	-1.5140		-0.0036		-0.0057
								0.0107		0.0165
4 csfmr	NL	0	0.1553568D+02	0.1913687D-09	0.6175156D+02	0.2516	0.0078	0.0078	0.0116	0.0118
					0.2500773D+02	0.6212		0.0022		0.0033
								-0.0065		-0.0095
5 rscmp	NL	0	0.5790394D-01	0.2358624D-05	0.1882525D+00	0.3076	0.3700	0.3701	0.4401	0.4459
					0.9517926D-02	6.0837		0.1026		0.1236
								-0.3069		-0.3608
6 ex7	NL	0	0.3191198D-02	0.7935082D-06	0.1047793D-01	0.3046	0.0069	0.0069	0.0000	0.0000
					0.5984489D-03	5.3324		0.0019		0.0000
								-0.0058		0.0000
7 ex8	NL	0	0.4216822D-02	0.1601096D-06	0.1366096D-01	0.3087	0.0021	0.0021	0.0000	0.0000
					0.3193608D-02	1.3204		0.0006		0.0000
								-0.0017		0.0000
8 zsc	NL	0	0.3705630D+05	0.5260671D-12	0.1259588D+06	0.2942	0.0512	0.0512	0.0000	0.0000
					0.1130076D+05	3.2791		0.0142		0.0000
								-0.0425		0.0000
9 str	NL	0	-0.2024694D+04	0.1826517D-11	0.6610260D+04	-0.3063	-0.0106	-0.0106	0.0000	0.0000
					0.1523749D+03	-13.2876		-0.0029		0.0000
								0.0088		0.0000
10 ant	NL	0	0.1708323D+05	0.4195291D-13	0.6258784D+05	0.2729	0.0020	0.0020	0.0000	0.0000
					0.1404069D+05	1.2167		0.0006		0.0000
								-0.0017		0.0000
11 antl1	NL	0	-0.6835349D+04	0.4622603D-13	0.2306815D+05	-0.2963	-0.0008	-0.0008	0.0000	0.0000
					0.1025648D+05	-0.6664		-0.0002		0.0000
								0.0007		0.0000
12 struct1	NL	0	-0.3379871D+04	0.2689387D-11	0.1197749D+05	-0.2822	-0.0252	-0.0252	-0.0707	-0.0716
					0.4966925D+04	-0.6805		-0.0070		-0.0199
								0.0209		0.0580
13 cheat2	NL	0	-0.9222581D+03	0.7637131D-12	0.4895822D+04	-0.1884	-0.0016	-0.0016	-0.0193	-0.0195
					0.3455129D+04	-0.2669		-0.0005		-0.0054
								0.0014		0.0158
14 cardex	NL	0	-0.1719104D+04	0.7791514D-12	0.6868320D+04	-0.2503	-0.0037	-0.0037	-0.0060	-0.0061
					0.3236813D+04	-0.5311		-0.0010		-0.0017
								0.0031		0.0049
15 fscd	EL	1	-0.1591764D+06	-0.8944736D-11	0.6328382D+06	-0.2515	-0.4192	-0.4193	-0.4416	-0.4474
					0.6667477D+05	-2.3874		-0.1162		-0.1240
								0.3476		0.3620
16 nc	EL	1	-0.5973387D+01	0.9640123D-07	0.4549923D+01	-1.3129	-1.1377	-1.1380	-1.5702	-1.5909
					0.3599627D+01	-1.6594		-0.3155		-0.4411
								0.9436		1.2870
17 p	EL	1	0.8009691D+03	0.3576227D-09	0.3012219D+04	0.2659	0.5766	0.5768	0.6694	0.6782
					0.2645631D+04	0.3028		0.1599		0.1880
								-0.4783		-0.5487
18 rawem	EL	1	0.5663071D+03	0.2334257D-09	0.2319296D+04	0.2442	0.2703	0.2704	0.3316	0.3359
					0.1207499D+04	0.4690		0.0749		0.0931
								-0.2242		-0.2718
19 tw	EL	1	-0.5036195D+04	0.1782647D-10	0.1451126D+05	-0.3471	-0.2768	-0.2769	-0.3316	-0.3359
					0.6351598D+04	-0.7929		-0.0767		-0.0931
								0.2296		0.2718
20 tt	EL	1	-0.5544159D+03	0.8405462D-10	0.2661779D+04	-0.2083	-0.1022	-0.1023	-0.0980	-0.0993

					0.2239585D+04	-0.2476			-0.0283		-0.0275
21	t2t	EL	1	0.6688815D+04	0.4391455D-10	0.1984539D+05	0.3370	0.7095	0.0848	0.8281	0.0804
						0.1120942D+05	0.5967		0.7096		0.8389
									0.1967		0.2326
22	tend	EL	1	0.1130801D+04	0.2537020D-09	0.2599764D+04	0.4350	0.6029	-0.5884	0.8203	-0.6787
						0.5095308D+03	2.2193		0.6030		0.8311
									0.1672		0.2304
23	shonf	EL	1	0.7800757D+00	0.7263534D-07	0.5608320D+00	1.3909	0.1122	-0.5000	0.1315	-0.6723
						0.3279075D+00	2.3790		0.1122		0.1332
									0.0311		0.0369
24	wd	EL	1	0.3669053D+04	0.8223166D-10	0.1005142D+05	0.3650	0.6633	-0.0930	0.6905	-0.1078
						0.1755269D+04	2.0903		0.6635		0.6996
									0.1839		0.1940
25	sat	EL	1	0.9452332D+03	0.1940820D-10	0.3091369D+04	0.3058	0.0550	-0.5501	0.0571	-0.5660
						0.1465973D+04	0.6448		0.0550		0.0579
									0.0152		0.0160
26	shd	EL	1	0.8295775D+03	0.2387426D-10	0.2744467D+04	0.3023	0.0555	-0.0456	0.0576	-0.0468
						0.1075357D+04	0.7714		0.0555		0.0584
									0.0154		0.0162
27	constant	NL	0	-0.2369002D+06	0.7436392D-11	0.8814374D+06	-0.2688	-4.7629	-0.0461	-4.9565	-0.0472
						0.1518161D+06	-1.5604		-4.7642		-5.0216
									-1.3206		-1.3922
									3.9503		4.0625
Autocorrelation											
28	rho 1			0.1380814D+00	0.1982504D-06	0.7744568D-01	1.7829				
						0.7661671D-01	1.8022				
29	rho 3			-0.3435606D+00	-0.1975535D-06	0.9550214D-01	-3.5974				
						0.8947341D-01	-3.8398				
30	rho 4			-0.8608260D-01	-0.7813913D-07	0.8098502D-01	-1.0629				
						0.7860356D-01	-1.0951				
31	rho 12			0.3815656D+00	-0.1476209D-06	0.8441599D-01	4.5201				
						0.8130075D-01	4.6933				
Box-cox on (x)											
32	lambda(x) 1 = lambda(y)			0.7234255D+00	-0.1099852D-04	0.2213022D+00	3.2689				
							-1.2498				
Residual (w)											
33	error variance			0.1100118D+08	0.6690237D-20	0.7253870D+08	0.1517				
						0.1360432D+07	8.0865				

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 t1k	0.1093929D+04	0.1093145D+04	0.2021434D+02	-0.1562743D-04
2 rfk	-0.5609152D+05	-0.5605133D+05	-0.1036496D+04	0.8013008D-03
3 sfk	-0.1484078D+05	-0.1483015D+05	-0.2742378D+03	0.2120094D-03
4 csfmr	0.9703608D+03	0.9696655D+03	0.1793097D+02	-0.1386218D-04
5 rscmp	0.3616689D+01	0.3614097D+01	0.6683157D-01	-0.5166655D-07
6 ex7	0.1993227D+00	0.1991799D+00	0.3683217D-02	-0.2847444D-08
7 ex8	0.2633834D+00	0.2631946D+00	0.4866972D-02	-0.3762588D-08
8 zsc	0.2314542D+07	0.2312883D+07	0.4276964D+05	-0.3306461D-01
9 str	-0.1264627D+06	-0.1263720D+06	-0.2336861D+04	0.1806594D-02
10 ant	0.1067021D+07	0.1066256D+07	0.1971712D+05	-0.1524303D-01
11 ant11	-0.4269369D+06	-0.4266310D+06	-0.7889223D+04	0.6099048D-02
12 struct1	-0.2111073D+06	-0.2109560D+06	-0.3900980D+04	0.3015793D-02
13 cheat2	-0.5760438D+05	-0.5756311D+05	-0.1064452D+04	0.8229129D-03
14 cardex	-0.1073755D+06	-0.1072986D+06	-0.1984155D+04	0.1533923D-02
15 fsod	-0.2162685D+08	-0.2161135D+08	-0.3996352D+06	0.3089524D+00
16 nc	-0.1126035D+02	-0.1125229D+02	-0.2080763D+00	0.1608609D-06
17 p	0.1273833D+05	0.1272920D+05	0.2353873D+03	-0.1819747D-03
18 rawem	0.1053849D+05	0.1053094D+05	0.1947371D+03	-0.1505486D-03
19 tw	-0.2141589D+06	-0.2140054D+06	-0.3957369D+04	0.3059387D-02
20 tt	-0.1484151D+05	-0.1483088D+05	-0.2742513D+03	0.2120198D-03

21 t2t	0.2212182D+06	0.2210597D+06	0.4087816D+04	-0.3160234D-02
22 tend	0.2017233D+05	0.2015788D+05	0.3727577D+03	-0.2881737D-03
23 shonf	0.1637341D+01	0.1636168D+01	0.3025588D-01	-0.2339040D-07
24 wd	0.9896567D+05	0.9889475D+05	0.1828753D+04	-0.1413784D-02
25 sat	0.3933147D+05	0.3930329D+05	0.7267930D+03	-0.5618735D-03
26 shd	0.3271717D+05	0.3269373D+05	0.6045695D+03	-0.4673843D-03
27 constant	-0.1479682D+08	-0.1478622D+08	-0.2734255D+06	0.2113814D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.5408D+02	-0.6995D+08
SIGMA(y)	0.1849D-01	0.1000D+01	-0.1294D+07
GAMMA(y)	-0.1430D-07	-0.7731D-06	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.3608D+01	-0.1206D+01
SIGMA(y)	0.2772D+00	0.1000D+01	-0.3343D+00
GAMMA(y)	-0.8292D+00	-0.2991D+01	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) tlk	rfk	sfk	csfmr	rscmp	ex7	ex8	zsc	str	ant
tlk	0.1000D+01	-0.5128D+02	-0.1357D+02	0.8870D+00	0.3306D-02	0.1822D-03	0.2408D-03	0.2116D+04	-0.1156D+03	0.9754D+03
rfk	-0.1950D-01	0.1000D+01	0.2646D+00	-0.1730D-01	-0.6448D-04	-0.3554D-05	-0.4696D-05	-0.4126D+02	0.2255D+01	-0.1902D+02
sfk	-0.7371D-01	0.3780D+01	0.1000D+01	-0.6538D-01	-0.2437D-03	-0.1343D-04	-0.1775D-04	-0.1560D+03	0.8521D+01	-0.7190D+02
csfmr	0.1127D+01	-0.5780D+02	-0.1529D+02	0.1000D+01	0.3727D-02	0.2054D-03	0.2714D-03	0.2385D+04	-0.1303D+03	0.1100D+04
rscmp	0.3025D+03	-0.1551D+05	-0.4103D+04	0.2683D+03	0.1000D+01	0.5511D-01	0.7282D-01	0.6400D+06	-0.3497D+05	0.2950D+06
ex7	0.5488D+04	-0.2814D+06	-0.7446D+05	0.4868D+04	0.1814D+02	0.1000D+01	0.1321D+01	0.1161D+08	-0.6345D+06	0.5353D+07
ex8	0.4153D+04	-0.2130D+06	-0.5635D+05	0.3684D+04	0.1373D+02	0.7568D+00	0.1000D+01	0.8788D+07	-0.4801D+06	0.4051D+07
zsc	0.4726D-03	-0.2423D-01	-0.6412D-02	0.4192D-03	0.1563D-05	0.8612D-07	0.1138D-06	0.1000D+01	-0.5464D-01	0.4610D+00
str	-0.8650D-02	0.4435D+00	0.1174D+00	-0.7673D-02	-0.2860D-04	-0.1576D-05	-0.2083D-05	-0.1830D+02	0.1000D+01	-0.8437D+01
ant	0.1025D-02	-0.5257D-01	-0.1391D-01	0.9094D-03	0.3390D-05	0.1868D-06	0.2468D-06	0.2169D+01	-0.1185D+00	0.1000D+01
antl1	-0.2562D-02	0.1314D+00	0.3476D-01	-0.2273D-02	-0.8471D-05	-0.4669D-06	-0.6169D-06	-0.5421D+01	0.2962D+00	-0.2499D+01
struct1	-0.5182D-02	0.2657D+00	0.7030D-01	-0.4597D-02	-0.1713D-04	-0.9442D-06	-0.1248D-05	-0.1096D+02	0.5990D+00	-0.5054D+01
cheat2	-0.1899D-01	0.9737D+00	0.2576D+00	-0.1685D-01	-0.6278D-04	-0.3460D-05	-0.4572D-05	-0.4018D+02	0.2195D+01	-0.1852D+02
cardex	-0.1019D-01	0.5224D+00	0.1382D+00	-0.9037D-02	-0.3368D-04	-0.1856D-05	-0.2453D-05	-0.2156D+02	0.1178D+01	-0.9937D+01
fscd	-0.5058D-04	0.2594D-02	0.6862D-03	-0.4487D-04	-0.1672D-06	-0.9216D-08	-0.1218D-07	-0.1070D+00	0.5847D-02	-0.4934D-01
nc	-0.9715D+02	0.4981D+04	0.1318D+04	-0.8617D+02	-0.3212D+00	-0.1770D-01	-0.2339D-01	-0.2055D+06	0.1123D+05	-0.9476D+05
p	0.8588D-01	-0.4403D+01	-0.1165D+01	0.7618D-01	0.2839D-03	0.1565D-04	0.2068D-04	0.1817D+03	-0.9928D+01	0.8376D+02
rawem	0.1038D+00	-0.5323D+01	-0.1408D+01	0.9208D-01	0.3432D-03	0.1891D-04	0.2499D-04	0.2196D+03	-0.1200D+02	0.1012D+03
tw	-0.5108D-02	0.2619D+00	0.6930D-01	-0.4531D-02	-0.1689D-04	-0.9307D-06	-0.1230D-05	-0.1081D+02	0.5905D+00	-0.4982D+01
tt	-0.7371D-01	0.3779D+01	0.1000D+01	-0.6538D-01	-0.2437D-03	-0.1343D-04	-0.1775D-04	-0.1560D+03	0.8521D+01	-0.7189D+02
t2t	0.4945D-02	-0.2536D+00	-0.6709D-01	0.4386D-02	0.1635D-04	0.9010D-06	0.1191D-05	0.1046D+02	-0.5717D+00	0.4823D+01
tend	0.5423D-01	-0.2781D+01	-0.7357D+00	0.4810D-01	0.1793D-03	0.9881D-05	0.1306D-04	0.1147D+03	-0.6269D+01	0.5290D+02
shonf	0.6681D+03	-0.3426D+05	-0.9064D+04	0.5926D+03	0.2209D+01	0.1217D+00	0.1609D+00	0.1414D+07	-0.7724D+05	0.6517D+06
wd	0.1105D-01	-0.5668D+00	-0.1500D+00	0.9805D-02	0.3654D-04	0.2014D-05	0.2661D-05	0.2339D+02	-0.1278D+01	0.1078D+02
sat	0.2781D-01	-0.1426D+01	-0.3773D+00	0.2467D-01	0.9195D-04	0.5068D-05	0.6697D-05	0.5885D+02	-0.3215D+01	0.2713D+02
shd	0.3344D-01	-0.1714D+01	-0.4536D+00	0.2966D-01	0.1105D-03	0.6092D-05	0.8050D-05	0.7074D+02	-0.3865D+01	0.3261D+02

constant	-0.7393D-04	0.3791D-02	0.1003D-02	-0.6558D-04	-0.2444D-06	-0.1347D-07	-0.1780D-07	-0.1564D+00	0.8547D-02	-0.7211D-01
X(k)	ant11	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt
tlk	-0.3903D+03	-0.1930D+03	-0.5266D+02	-0.9816D+02	-0.1977D+05	-0.1029D-01	0.1164D+02	0.9634D+01	-0.1958D+03	-0.1357D+02
rfk	0.7611D+01	0.3764D+01	0.1027D+01	0.1914D+01	0.3856D+03	0.2007D-03	-0.2271D+00	-0.1879D+00	0.3818D+01	0.2646D+00
sfk	0.2877D+02	0.1422D+02	0.3881D+01	0.7235D+01	0.1457D+04	0.7587D-03	-0.8583D+00	-0.7101D+00	0.1443D+02	0.1000D+01
csfmr	-0.4400D+03	-0.2176D+03	-0.5936D+02	-0.1107D+03	-0.2229D+05	-0.1160D-01	0.1313D+02	0.1086D+02	-0.2207D+03	-0.1529D+02
rscmp	-0.1180D+06	-0.5837D+05	-0.1593D+05	-0.2969D+05	-0.5980D+07	-0.3113D+01	0.3522D+04	0.2914D+04	-0.5921D+05	-0.4104D+04
ex7	-0.2142D+07	-0.1059D+07	-0.2890D+06	-0.5387D+06	-0.1085D+09	-0.5649D+02	0.6391D+05	0.5287D+05	-0.1074D+07	-0.7446D+05
ex8	-0.1621D+07	-0.8015D+06	-0.2187D+06	-0.4077D+06	-0.8211D+08	-0.4275D+02	0.4836D+05	0.4001D+05	-0.8131D+06	-0.5635D+05
zsc	-0.1845D+00	-0.9121D-01	-0.2489D-01	-0.4639D-01	-0.9344D+01	-0.4865D-05	0.5504D-02	0.4553D-02	-0.9253D-01	-0.6412D-02
str	0.3376D+01	0.1669D+01	0.4555D+00	0.8491D+00	0.1710D+03	0.8904D-04	-0.1007D+00	-0.8333D-01	0.1693D+01	0.1174D+00
ant	-0.4001D+00	-0.1978D+00	-0.5399D-01	-0.1006D+00	-0.2027D+02	-0.1055D-04	0.1194D-01	0.9877D-02	-0.2007D+00	-0.1391D-01
ant11	0.1000D+01	0.4945D+00	0.1349D+00	0.2515D+00	0.5066D+02	0.2637D-04	-0.2984D-01	-0.2468D-01	0.5016D+00	0.3476D-01
struct1	0.2022D+01	0.1000D+01	0.2729D+00	0.5086D+00	0.1024D+03	0.5334D-04	-0.6034D-01	-0.4992D-01	0.1014D+01	0.7030D-01
cheat2	0.7412D+01	0.3665D+01	0.1000D+01	0.1864D+01	0.3754D+03	0.1955D-03	-0.2211D+00	-0.1829D+00	0.3718D+01	0.2576D+00
cardex	0.3976D+01	0.1966D+01	0.5365D+00	0.1000D+01	0.2014D+03	0.1049D-03	-0.1186D+00	-0.9815D-01	0.1994D+01	0.1382D+00
fscd	0.1974D-01	0.9761D-02	0.2664D-02	0.4965D-02	0.1000D+01	0.5207D-06	-0.5890D-03	-0.4873D-03	0.9902D-02	0.6863D-03
nc	0.3792D+05	0.1875D+05	0.5116D+04	0.9536D+04	0.1921D+07	0.1000D+01	-0.1131D+04	-0.9359D+03	0.1902D+05	0.1318D+04
p	-0.3352D+02	-0.1657D+02	-0.4522D+01	-0.8429D+01	-0.1698D+04	-0.8840D-03	0.1000D+01	0.8273D+00	-0.1681D+02	-0.1165D+01
rawem	-0.4051D+02	-0.2003D+02	-0.5466D+01	-0.1019D+02	-0.2052D+04	-0.1068D-02	0.1209D+01	0.1000D+01	-0.2032D+02	-0.1408D+01
tw	0.1994D+01	0.9858D+00	0.2690D+00	0.5014D+00	0.1010D+03	0.5258D-04	-0.5948D-01	-0.4921D-01	0.1000D+01	0.6930D-01
tt	0.2877D+02	0.1422D+02	0.3881D+01	0.7235D+01	0.1457D+04	0.7587D-03	-0.8583D+00	-0.7101D+00	0.1443D+02	0.1000D+01
t2t	-0.1930D+01	-0.9543D+00	-0.2604D+00	-0.4854D+00	-0.9776D+02	-0.5090D-04	0.5758D-01	0.4764D-01	-0.9681D+00	-0.6709D-01
tend	-0.2116D+02	-0.1047D+02	-0.2856D+01	-0.5323D+01	-0.1072D+04	-0.5582D-03	0.6315D+00	0.5224D+00	-0.1062D+02	-0.7357D+00
shonf	-0.2608D+06	-0.1289D+06	-0.3518D+05	-0.6558D+05	-0.1321D+08	-0.6877D+01	0.7780D+04	0.6436D+04	-0.1308D+06	-0.9064D+04
wd	-0.4314D+01	-0.2133D+01	-0.5821D+00	-0.1085D+01	-0.2185D+03	-0.1138D-03	0.1287D+00	0.1065D+00	-0.2164D+01	-0.1500D+00
sat	-0.1085D+02	-0.5367D+01	-0.1465D+01	-0.2730D+01	-0.5499D+03	-0.2863D-03	0.3239D+00	0.2679D+00	-0.5445D+01	-0.3773D+00
shd	-0.1305D+02	-0.6452D+01	-0.1761D+01	-0.3282D+01	-0.6610D+03	-0.3442D-03	0.3893D+00	0.3221D+00	-0.6546D+01	-0.4536D+00
constant	0.2885D-01	0.1427D-01	0.3893D-02	0.7257D-02	0.1462D+01	0.7610D-06	-0.8609D-03	-0.7122D-03	0.1447D-01	0.1003D-02
X(k)	t2t	tend	shonf	wd	sat	shd	constant			
tlk	0.2022D+03	0.1844D+02	0.1497D-02	0.9047D+02	0.3595D+02	0.2991D+02	-0.1353D+05			
rfk	-0.3944D+01	-0.3596D+00	-0.2919D-04	-0.1764D+01	-0.7012D+00	-0.5833D+00	0.2638D+03			
sfk	-0.1491D+02	-0.1359D+01	-0.1103D-03	-0.6668D+01	-0.2650D+01	-0.2205D+01	0.9970D+03			
csfmr	0.2280D+03	0.2079D+02	0.1687D-02	0.1020D+03	0.4053D+02	0.3372D+02	-0.1525D+05			
rscmp	0.6117D+05	0.5578D+04	0.4527D+00	0.2736D+05	0.1087D+05	0.9046D+04	-0.4091D+07			
ex7	0.1110D+07	0.1012D+06	0.8215D+01	0.4965D+06	0.1973D+06	0.1641D+06	-0.7424D+08			
ex8	0.8399D+06	0.7659D+05	0.6217D+01	0.3757D+06	0.1493D+06	0.1242D+06	-0.5618D+08			
zsc	0.9558D-01	0.8715D-02	0.7074D-06	0.4276D-01	0.1699D-01	0.1414D-01	-0.6393D+01			
str	-0.1749D+01	-0.1595D+00	-0.1295D-04	-0.7826D+00	-0.3110D+00	-0.2587D+00	0.1170D+03			
ant	0.2073D+00	0.1891D-01	0.1534D-05	0.9275D-01	0.3686D-01	0.3066D-01	-0.1387D+02			
ant11	-0.5182D+00	-0.4725D-01	-0.3835D-05	-0.2318D+00	-0.9212D-01	-0.7663D-01	0.3466D+02			
struct1	-0.1048D+01	-0.9555D-01	-0.7756D-05	-0.4688D+00	-0.1863D+00	-0.1550D+00	0.7009D+02			
cheat2	-0.3840D+01	-0.3502D+00	-0.2842D-04	-0.1718D+01	-0.6828D+00	-0.5680D+00	0.2569D+03			
cardex	-0.2060D+01	-0.1879D+00	-0.1525D-04	-0.9217D+00	-0.3663D+00	-0.3047D+00	0.1378D+03			
fscd	-0.1023D-01	-0.9327D-03	-0.7571D-07	-0.4576D-02	-0.1819D-02	-0.1513D-02	0.6842D+00			
nc	-0.1965D+05	-0.1791D+04	-0.1454D+00	-0.8789D+04	-0.3493D+04	-0.2906D+04	0.1314D+07			
p	0.1737D+02	0.1584D+01	0.1285D-03	0.7769D+01	0.3088D+01	0.2568D+01	-0.1162D+04			
rawem	0.2099D+02	0.1914D+01	0.1554D-03	0.9391D+01	0.3732D+01	0.3105D+01	-0.1404D+04			

```

tw          -0.1033D+01 -0.9419D-01 -0.7645D-05 -0.4621D+00 -0.1837D+00 -0.1528D+00  0.6909D+02
tt          -0.1491D+02 -0.1359D+01 -0.1103D-03 -0.6668D+01 -0.2650D+01 -0.2204D+01  0.9970D+03
t2t         0.1000D+01  0.9119D-01  0.7401D-05  0.4474D+00  0.1778D+00  0.1479D+00 -0.6689D+02
tend        0.1097D+02  0.1000D+01  0.8117D-04  0.4906D+01  0.1950D+01  0.1622D+01 -0.7335D+03
shonf       0.1351D+06  0.1232D+05  0.1000D+01  0.6044D+05  0.2402D+05  0.1998D+05 -0.9037D+07
wd          0.2235D+01  0.2038D+00  0.1654D-04  0.1000D+01  0.3974D+00  0.3306D+00 -0.1495D+03
sat         0.5624D+01  0.5129D+00  0.4163D-04  0.2516D+01  0.1000D+01  0.8318D+00 -0.3762D+03
shd         0.6762D+01  0.6166D+00  0.5005D-04  0.3025D+01  0.1202D+01  0.1000D+01 -0.4523D+03
constant    -0.1495D-01 -0.1363D-02 -0.1107D-06 -0.6688D-02 -0.2658D-02 -0.2211D-02  0.1000D+01

```

Log-likelihood

```

- initial value :      -2337.5120
- final value   :      -2306.6191
- ratio test    :           61.7859

```

```

Pearson-r2      :           0.9343
Pearson-r2 bar  :           0.9194
Pseudo-(1)-r2   :           0.8693
Pseudo-(1)-r2 bar :          0.8397
Std-error of (w) :          3316.8027

```

```

Number of observations   first-last obs.no.
- sample      :      181           1 -      181
- estimation   :      169          13 -      181

```

CPU TIME: 0.31 sec

Output file 4: sch_bc1auhg.txt

```

&CARD1
NOBS   =      181,
NC     =       13,
NF     =      181,
NFP    =      181,
NOBEL  =       12,
NM     =        0,
NSTEP  =       500,
EPSI   =  1.000000000000000E-007,
WGHT   =  1.000000000000000
/
&CARD2
NB     =       26,
NRO    =        4,
NSL    =       14,
NGF    =        0,
MAXF   =        0,
NGV    =        1,
MAXV   =       12,
NLY    =        2,
NDM    =        1,
NLE    =        1,
ND     =        1
/
&CARD3
NCOR   =        0,
NRES   =        0,
NPW    =        0,
NGUVW  =        0,
NPDQL  =        0,
NCOV   =        0,
NEY    =        0,
VARNAME = s_bc1auhg,
NVIANT  =         4
/

```

Working space used : 14204 out of 500000

```

autocorrelation of orders:      1          3          4          12
rho initial values:  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000

```

group (x) without box-cox transformation
variable no.
1 2 3 4 5 6 7 8 9 10 11 12 13 14

group 1 (estimated lambda(x))
initial value: 1.00000000000000
variable no.
15 16 17 18 19 20 21 22 23 24 25 26

lambda(y) is set equal to lambda(x) of group no. 1
lambda(y) initial value: 1.00000000000000
upper limit for y 0.00000000000000E+000

Heteroscedasticity
variables: tend
delta initial values: 0.00000000000000E+000
lambda(z) initial values: 1.00000000000000

no.	variable	minimum	mean	maximum	null obs.
	xcscnfa	0.11946D+07	0.30692D+07	0.56239D+07	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	rfl	0.00000D+00	0.71459D+00	0.20581D+01	2
3	sfl	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rscmp	0.00000D+00	0.31171D+06	0.48000D+06	29
6	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	zsc	0.00000D+00	0.69971D-01	0.19910D+00	73
9	str	0.00000D+00	0.24309D+00	0.20000D+02	178
10	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
11	ant11	0.00000D+00	0.55249D-02	0.10000D+01	180
12	struct1	0.00000D+00	0.34558D+00	0.10000D+01	118
13	cheat2	0.00000D+00	0.82873D-01	0.10000D+01	166
14	cardex	0.00000D+00	0.99448D-01	0.10000D+01	163
15	fscd	0.48049D-01	0.59514D-01	0.73232D-01	0
16	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
17	p	0.12030D+03	0.13936D+03	0.16661D+03	0
18	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
19	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
20	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
21	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
22	tend	0.10000D+01	0.87122D+02	0.15500D+03	0
23	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
24	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
25	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
26	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
27	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y (sample)	E (y)	y (sample)	E (y)
								SIGMA (y) <td></td> <td>SIGMA (y)</td>		SIGMA (y)
								GAMMA (y) <td></td> <td>GAMMA (y)</td>		GAMMA (y)
							-first obs	13	-first obs	170
							-last obs	181	-last obs	181
1	tlk	NL	0	0.1047874D+04	0.1936095D+03	0.3302359D+03	3.1731	0.0653	0.0701	0.0703
								0.0000		0.0000
								0.1984		0.2140
2	rfl	NL	0	-0.5065668D+05	0.7128659D+00	0.5847963D+05	-0.8662	-0.0116	-0.0095	-0.0096
								0.0000		0.0000
								-0.0353		-0.0291
3	sfl	NL	0	-0.3592992D+05	0.2689872D+01	0.1105072D+05	-3.2514	-0.0311	-0.0496	-0.0498
								0.0000		0.0000
								-0.0945		-0.1514
4	csfmr	NL	0	0.2221204D+04	0.2501124D+02	0.1239743D+04	1.7917	0.0179	0.0270	0.0271
								0.0000		0.0000
								0.0543		0.0825
5	rscmp	NL	0	0.4323811D+01	0.3178287D+06	0.3651290D+00	11.8419	0.4423	0.5343	0.5360
								0.0000		0.0000
								1.3439		1.6310
6	ex7	NL	0	0.2585828D+00	0.1081862D+06	0.4805589D-01	5.3809	0.0090	0.0000	0.0000
								0.0000		0.0000
								0.0274		0.0000
7	ex8	NL	0	0.2570512D+00	0.2437638D+05	0.1816524D+00	1.4151	0.0020	0.0000	0.0000
								0.0000		0.0000
								0.0061		0.0000
8	zsc	NL	0	0.3046750D+07	0.6872512D-01	0.8535266D+06	3.5696	0.0674	0.0000	0.0000
								0.0000		0.0000
								0.2048		0.0000
9	str	NL	0	-0.1288422D+06	0.2603550D+00	0.1118485D+05	-11.5193	-0.0108	0.0000	0.0000
								0.0000		0.0000
								-0.0328		0.0000
10	ant	NL	0	0.1190409D+07	0.5917160D-02	0.2876662D+06	4.1382	0.0023	0.0000	0.0000
								0.0000		0.0000
								0.0069		0.0000
11	ant11	NL	0	-0.3744721D+06	0.5917160D-02	0.3011484D+06	-1.2435	-0.0007	0.0000	0.0000
								0.0000		0.0000
								-0.0022		0.0000
12	struct1	NL	0	0.1094552D+06	0.3701183D+00	0.3098343D+06	0.3533	0.0130	0.0372	0.0373
								0.0000		0.0000
								0.0396		0.1136
13	cheat2	NL	0	-0.2399829D+06	0.8875740D-01	0.2061219D+06	-1.1643	-0.0069	-0.0816	-0.0819

									0.0000		0.0000
									-0.0208		-0.2492
14 cardex	NL	0	0.5866120D+05	0.1065089D+00	0.1453406D+06	0.4036	0.0020	0.0020	0.0033	0.0033	0.0033
									0.0000		0.0000
									0.0061		0.0102
15 fscd	EL	1	-0.1938637D+08	0.6021048D-01	0.8394865D+07	-2.3093	-0.3757	-0.3757	-0.4038	-0.4038	-0.4052
									0.0000		0.0000
									-1.1415		-1.2329
16 nc	EL	1	-0.9135182D+01	0.3138985D+06	0.6631562D+01	-1.3775	-0.9230	-0.9230	-1.4409	-1.4409	-1.4455
									-0.0001		-0.0001
									-2.8042		-4.3986
17 p	EL	1	-0.2388173D+05	0.1406331D+03	0.3368080D+05	-0.7091	-1.0811	-1.0811	-1.3287	-1.3287	-1.3330
									-0.0001		-0.0001
									-3.2843		-4.0561
18 rawem	EL	1	0.3566232D+05	0.7968800D+02	0.2386297D+05	1.4945	0.9148	0.9148	1.2132	1.2132	1.2171
									0.0001		0.0001
									2.7791		3.7035
19 tw	EL	1	-0.5400299D+05	0.4015184D+01	0.1642368D+06	-0.3288	-0.0698	-0.0698	-0.0896	-0.0896	-0.0899
									0.0000		0.0000
									-0.2120		-0.2735
20 tt	EL	1	0.4305496D+05	0.2140038D+02	0.5374149D+05	0.8011	0.2966	0.2966	0.2799	0.2799	0.2808
									0.0000		0.0000
									0.9010		0.8546
21 t2t	EL	1	0.3110235D+06	0.9963177D+01	0.2441552D+06	1.2739	0.9975	0.9975	1.2351	1.2351	1.2391
									0.0001		0.0001
									3.0303		3.7705
22 tend	EL	1	0.1795343D+05	0.9284615D+02	0.8224375D+04	2.1830	0.5366	0.5366	0.8213	0.8213	0.8239
									0.0000		0.0001
									1.6301		2.5072
23 shonf	EL	1	0.2073890D+01	0.2128346D+06	0.5550214D+00	3.7366	0.1421	0.1421	0.1770	0.1770	0.1776
									0.0000		0.0000
									0.4316		0.5404
24 wd	EL	1	0.1292937D+06	0.2082249D+02	0.3326362D+05	3.8869	0.8666	0.8666	0.9161	0.9161	0.9191
									0.0001		0.0001
									2.6327		2.7967
25 sat	EL	1	0.8112208D+05	0.4343195D+01	0.5389466D+05	1.5052	0.1134	0.1134	0.1196	0.1196	0.1199
									0.0000		0.0000
									0.3445		0.3650
26 shd	EL	1	0.3591234D+05	0.5272189D+01	0.3811082D+05	0.9423	0.0609	0.0609	0.0641	0.0641	0.0643
									0.0000		0.0000
									0.1852		0.1958
27 constant	NL	0	-0.2203789D+08	0.1000000D+01	0.9941611D+07	-2.2167	-7.0937	-7.0937	-7.4954	-7.4954	-7.5197
									-0.0006		-0.0006
									-21.5509		-22.8816

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	0.1047874D+04	0.1047873D+04	0.7590909D-02	-0.1162930D-05
2 rfk	-0.5065668D+05	-0.5065665D+05	-0.3669623D+00	0.5621877D-04
3 sfk	-0.3592992D+05	-0.3592990D+05	-0.2602802D+00	0.3987502D-04
4 csfmr	0.2221204D+04	0.2221203D+04	0.1609064D-01	-0.2465092D-05
5 rscmp	0.4323811D+01	0.4323808D+01	0.3132215D-04	-0.4798565D-08
6 ex7	0.2585828D+00	0.2585827D+00	0.1873201D-05	-0.2869751D-09
7 ex8	0.2570512D+00	0.2570510D+00	0.1862106D-05	-0.2852753D-09
8 zsc	0.3046750D+07	0.3046749D+07	0.2207098D+02	-0.3381283D-02
9 str	-0.1288422D+06	-0.1288421D+06	-0.9333465D+00	0.1429890D-03
10 ant	0.1190409D+07	0.1190408D+07	0.8623447D+01	-0.1321115D-02
11 antl1	-0.3744721D+06	-0.3744719D+06	-0.2712715D+01	0.4155890D-03
12 struct1	0.1094552D+06	0.1094551D+06	0.7929050D+00	-0.1214733D-03
13 cheat2	-0.2399829D+06	-0.2399828D+06	-0.1738462D+01	0.2663330D-03
14 cardex	0.5866120D+05	0.5866116D+05	0.4249479D+00	-0.6510219D-04
15 fscd	-0.1938637D+08	-0.1938636D+08	-0.1404369D+03	0.2151499D-01
16 nc	-0.9135182D+01	-0.9135177D+01	-0.6617623D-04	0.1013822D-07
17 p	-0.2388173D+05	-0.2388172D+05	-0.1730018D+00	0.2650394D-04
18 rawem	0.3566232D+05	0.3566230D+05	0.2583416D+00	-0.3957803D-04
19 tw	-0.5400299D+05	-0.5400296D+05	-0.3912034D+00	0.5993251D-04
20 tt	0.4305496D+05	0.4305493D+05	0.3118947D+00	-0.4778238D-04
21 t2t	0.3110235D+06	0.3110233D+06	0.2253087D+01	-0.3451738D-03
22 tend	0.1795343D+05	0.1795342D+05	0.1300565D+00	-0.1992471D-04

23 shonf	0.2073890D+01	0.2073889D+01	0.1502348D-04	-0.2301603D-08
24 wd	0.1292937D+06	0.1292936D+06	0.9366174D+00	-0.1434901D-03
25 sat	0.8112208D+05	0.8112203D+05	0.5876569D+00	-0.9002926D-04
26 shd	0.3591234D+05	0.3591232D+05	0.2601528D+00	-0.3985550D-04
27 constant	-0.2203789D+08	-0.2203788D+08	-0.1596448D+03	0.2445765D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1380D+06	-0.9011D+09
SIGMA(y)	0.7244D-05	0.1000D+01	-0.6527D+04
GAMMA(y)	-0.1110D-08	-0.1532D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1092D+05	0.3292D+00
SIGMA(y)	0.9153D-04	0.1000D+01	0.3013D-04
GAMMA(y)	0.3038D+01	0.3319D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) tlk	rfk	sfk	csfmr	rscmp	ex7	ex8	zsc	str	ant
tlk	0.1000D+01	-0.4834D+02	-0.3429D+02	0.2120D+01	0.4126D-02	0.2468D-03	0.2453D-03	0.2908D+04	-0.1230D+03	0.1136D+04
rfk	-0.2069D-01	0.1000D+01	0.7093D+00	-0.4385D-01	-0.8536D-04	-0.5105D-05	-0.5074D-05	-0.6015D+02	0.2543D+01	-0.2350D+02
sfk	-0.2916D-01	0.1410D+01	0.1000D+01	-0.6182D-01	-0.1203D-03	-0.7197D-05	-0.7154D-05	-0.8480D+02	0.3586D+01	-0.3313D+02
csfmr	0.4718D+00	-0.2281D+02	-0.1618D+02	0.1000D+01	0.1947D-02	0.1164D-03	0.1157D-03	0.1372D+04	-0.5801D+02	0.5359D+03
rscmp	0.2423D+03	-0.1172D+05	-0.8310D+04	0.5137D+03	0.1000D+01	0.5980D-01	0.5945D-01	0.7046D+06	-0.2980D+05	0.2753D+06
ex7	0.4052D+04	-0.1959D+06	-0.1389D+06	0.8590D+04	0.1672D+02	0.1000D+01	0.9941D+00	0.1178D+08	-0.4983D+06	0.4604D+07
ex8	0.4077D+04	-0.1971D+06	-0.1398D+06	0.8641D+04	0.1682D+02	0.1006D+01	0.1000D+01	0.1185D+08	-0.5012D+06	0.4631D+07
zsc	0.3439D-03	-0.1663D-01	-0.1179D-01	0.7290D-03	0.1419D-05	0.8487D-07	0.8437D-07	0.1000D+01	-0.4229D-01	0.3907D+00
str	-0.8133D-02	0.3932D+00	0.2789D+00	-0.1724D-01	-0.3356D-04	-0.2007D-05	-0.1995D-05	-0.2365D+02	0.1000D+01	-0.9239D+01
ant	0.8803D-03	-0.4255D-01	-0.3018D-01	0.1866D-02	0.3632D-05	0.2172D-06	0.2159D-06	0.2559D+01	-0.1082D+00	0.1000D+01
antl1	-0.2798D-02	0.1353D+00	0.9595D-01	-0.5932D-02	-0.1155D-04	-0.6905D-06	-0.6864D-06	-0.8136D+01	0.3441D+00	-0.3179D+01
struct1	0.9574D-02	-0.4628D+00	-0.3283D+00	0.2029D-01	0.3950D-04	0.2362D-05	0.2348D-05	0.2784D+02	-0.1177D+01	0.1088D+02
cheat2	-0.4366D-02	0.2111D+00	0.1497D+00	-0.9256D-02	-0.1802D-04	-0.1078D-05	-0.1071D-05	-0.1270D+02	0.5369D+00	-0.4960D+01
cardex	0.1786D-01	-0.8635D+00	-0.6125D+00	0.3786D-01	0.7371D-04	0.4408D-05	0.4382D-05	0.5194D+02	-0.2196D+01	0.2029D+02
fscd	-0.5405D-04	0.2613D-02	0.1853D-02	-0.1146D-03	-0.2230D-06	-0.1334D-07	-0.1326D-07	-0.1572D+00	0.6646D-02	-0.6140D-01
nc	-0.1147D+03	0.5545D+04	0.3933D+04	-0.2431D+03	-0.4733D+00	-0.2831D-01	-0.2814D-01	-0.3335D+06	0.1410D+05	-0.1303D+06
p	-0.4388D-01	0.2121D+01	0.1504D+01	-0.9301D-01	-0.1811D-03	-0.1083D-04	-0.1076D-04	-0.1276D+03	0.5395D+01	-0.4985D+02
rawem	0.2938D-01	-0.1420D+01	-0.1008D+01	0.6228D-01	0.1212D-03	0.7251D-05	0.7208D-05	0.8543D+02	-0.3613D+01	0.3338D+02
tw	-0.1940D-01	0.9380D+00	0.6653D+00	-0.4113D-01	-0.8007D-04	-0.4788D-05	-0.4760D-05	-0.5642D+02	0.2386D+01	-0.2204D+02
tt	0.2434D-01	-0.1177D+01	-0.8345D+00	0.5159D-01	0.1004D-03	0.6006D-05	0.5970D-05	0.7076D+02	-0.2993D+01	0.2765D+02
t2t	0.3369D-02	-0.1629D+00	-0.1155D+00	0.7142D-02	0.1390D-04	0.8314D-06	0.8265D-06	0.9796D+01	-0.4143D+00	0.3827D+01
tend	0.5837D-01	-0.2822D+01	-0.2001D+01	0.1237D+00	0.2408D-03	0.1440D-04	0.1432D-04	0.1697D+03	-0.7176D+01	0.6631D+02
shonf	0.5053D+03	-0.2443D+05	-0.1732D+05	0.1071D+04	0.2085D+01	0.1247D+00	0.1239D+00	0.1469D+07	-0.6213D+05	0.5740D+06
wd	0.8105D-02	-0.3918D+00	-0.2779D+00	0.1718D-01	0.3344D-04	0.2000D-05	0.1988D-05	0.2356D+02	-0.9965D+00	0.9207D+01
sat	0.1292D-01	-0.6244D+00	-0.4429D+00	0.2738D-01	0.5330D-04	0.3188D-05	0.3169D-05	0.3756D+02	-0.1588D+01	0.1467D+02
shd	0.2918D-01	-0.1411D+01	-0.1000D+01	0.6185D-01	0.1204D-03	0.7200D-05	0.7158D-05	0.8484D+02	-0.3588D+01	0.3315D+02
constant	-0.4755D-04	0.2299D-02	0.1630D-02	-0.1008D-03	-0.1962D-06	-0.1173D-07	-0.1166D-07	-0.1383D+00	0.5846D-02	-0.5402D-01
	X(k) antl1	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt

X(l)										
tlk	-0.3574D+03	0.1045D+03	-0.2290D+03	0.5598D+02	-0.1850D+05	-0.8718D-02	-0.2279D+02	0.3403D+02	-0.5154D+02	0.4109D+02
rfk	0.7392D+01	-0.2161D+01	0.4737D+01	-0.1158D+01	0.3827D+03	0.1803D-03	0.4714D+00	-0.7040D+00	0.1066D+01	-0.8499D+00
sfk	0.1042D+02	-0.3046D+01	0.6679D+01	-0.1633D+01	0.5396D+03	0.2542D-03	0.6647D+00	-0.9926D+00	0.1503D+01	-0.1198D+01
csfmr	-0.1686D+03	0.4928D+02	-0.1080D+03	0.2641D+02	-0.8728D+04	-0.4113D-02	-0.1075D+02	0.1606D+02	-0.2431D+02	0.1938D+02
rscmp	-0.8661D+05	0.2531D+05	-0.5550D+05	0.1357D+05	-0.4484D+07	-0.2113D+01	-0.5523D+04	0.8248D+04	-0.1249D+05	0.9958D+04
ex7	-0.1448D+07	0.4233D+06	-0.9281D+06	0.2269D+06	-0.7497D+08	-0.3533D+02	-0.9236D+05	0.1379D+06	-0.2088D+06	0.1665D+06
ex8	-0.1457D+07	0.4258D+06	-0.9336D+06	0.2282D+06	-0.7542D+08	-0.3554D+02	-0.9291D+05	0.1387D+06	-0.2101D+06	0.1675D+06
zsc	-0.1229D+00	0.3593D-01	-0.7877D-01	0.1925D-01	-0.6363D+01	-0.2998D-05	-0.7838D-02	0.1171D-01	-0.1772D-01	0.1413D-01
str	0.2906D+01	-0.8495D+00	0.1863D+01	-0.4553D+00	0.1505D+03	0.7090D-04	0.1854D+00	-0.2768D+00	0.4191D+00	-0.3342D+00
ant	-0.3146D+00	0.9195D-01	-0.2016D+00	0.4928D-01	-0.1629D+02	-0.7674D-05	-0.2006D-01	0.2996D-01	-0.4537D-01	0.3617D-01
antl1	0.1000D+01	-0.2923D+00	0.6409D+00	-0.1567D+00	0.5177D+02	0.2439D-04	0.6377D-01	-0.9523D-01	0.1442D+00	-0.1150D+00
struct1	-0.3421D+01	0.1000D+01	-0.2193D+01	0.5359D+00	-0.1771D+03	-0.8346D-04	-0.2182D+00	0.3258D+00	-0.4934D+00	0.3934D+00
cheat2	0.1560D+01	-0.4561D+00	0.1000D+01	-0.2444D+00	0.8078D+02	0.3807D-04	0.9951D-01	-0.1486D+00	0.2250D+00	-0.1794D+00
cardex	-0.6384D+01	0.1866D+01	-0.4091D+01	0.1000D+01	-0.3305D+03	-0.1557D-03	-0.4071D+00	0.6079D+00	-0.9206D+00	0.7340D+00
fscd	0.1932D-01	-0.5646D-02	0.1238D-01	-0.3026D-02	0.1000D+01	0.4712D-06	0.1232D-02	-0.1840D-02	0.2786D-02	-0.2221D-02
nc	0.4099D+05	-0.1198D+05	0.2627D+05	-0.6421D+04	0.2122D+07	0.1000D+01	0.2614D+04	-0.3904D+04	0.5912D+04	-0.4713D+04
p	0.1568D+02	-0.4583D+01	0.1005D+02	-0.2456D+01	0.8118D+03	0.3825D-03	0.1000D+01	-0.1493D+01	0.2261D+01	-0.1803D+01
rawem	-0.1050D+02	0.3069D+01	-0.6729D+01	0.1645D+01	-0.5436D+03	-0.2562D-03	-0.6697D+00	0.1000D+01	-0.1514D+01	0.1207D+01
tw	0.6934D+01	-0.2027D+01	0.4444D+01	-0.1086D+01	0.3590D+03	0.1692D-03	0.4422D+00	-0.6604D+00	0.1000D+01	-0.7973D+00
tt	-0.8698D+01	0.2542D+01	-0.5574D+01	0.1362D+01	-0.4503D+03	-0.2122D-03	-0.5547D+00	0.8283D+00	-0.1254D+01	0.1000D+01
t2t	-0.1204D+01	0.3519D+00	-0.7716D+00	0.1886D+00	-0.6233D+02	-0.2937D-04	-0.7678D-01	0.1147D+00	-0.1736D+00	0.1384D+00
tend	-0.2086D+02	0.6097D+01	-0.1337D+02	0.3267D+01	-0.1080D+04	-0.5088D-03	-0.1330D+01	0.1986D+01	-0.3008D+01	0.2398D+01
shonf	-0.1806D+06	0.5278D+05	-0.1157D+06	0.2829D+05	-0.9348D+07	-0.4405D+01	-0.1152D+05	0.1720D+05	-0.2604D+05	0.2076D+05
wd	-0.2896D+01	0.8466D+00	-0.1856D+01	0.4537D+00	-0.1499D+03	-0.7065D-04	-0.1847D+00	0.2758D+00	-0.4177D+00	0.3330D+00
sat	-0.4616D+01	0.1349D+01	-0.2958D+01	0.7231D+00	-0.2390D+03	-0.1126D-03	-0.2944D+00	0.4396D+00	-0.6657D+00	0.5307D+00
shd	-0.1043D+02	0.3048D+01	-0.6682D+01	0.1633D+01	-0.5398D+03	-0.2544D-03	-0.6650D+00	0.9930D+00	-0.1504D+01	0.1199D+01
constant	0.1699D-01	-0.4967D-02	0.1089D-01	-0.2662D-02	0.8797D+00	0.4145D-06	0.1084D-02	-0.1618D-02	0.2450D-02	-0.1954D-02
X(l)	X(k)	t2t	tend	shonf	wd	sat	shd	constant		
tlk	0.2968D+03	0.1713D+02	0.1979D-02	0.1234D+03	0.7742D+02	0.3427D+02	-0.2103D+05			
rfk	-0.6140D+01	-0.3544D+00	-0.4094D-04	-0.2552D+01	-0.1601D+01	-0.7089D+00	0.4350D+03			
sfk	-0.8656D+01	-0.4997D+00	-0.5772D-04	-0.3598D+01	-0.2258D+01	-0.9995D+00	0.6134D+03			
csfmr	0.1400D+03	0.8083D+01	0.9337D-03	0.5821D+02	0.3652D+02	0.1617D+02	-0.9922D+04			
rscmp	0.7193D+05	0.4152D+04	0.4796D+00	0.2990D+05	0.1876D+05	0.8306D+04	-0.5097D+07			
ex7	0.1203D+07	0.6943D+05	0.8020D+01	0.5000D+06	0.3137D+06	0.1389D+06	-0.8523D+08			
ex8	0.1210D+07	0.6984D+05	0.8068D+01	0.5030D+06	0.3156D+06	0.1397D+06	-0.8573D+08			
zsc	0.1021D+00	0.5893D-02	0.6807D-06	0.4244D-01	0.2663D-01	0.1179D-01	-0.7233D+01			
str	-0.2414D+01	-0.1393D+00	-0.1610D-04	-0.1004D+01	-0.6296D+00	-0.2787D+00	0.1710D+03			
ant	0.2613D+00	0.1508D-01	0.1742D-05	0.1086D+00	0.6815D-01	0.3017D-01	-0.1851D+02			
antl1	-0.8306D+00	-0.4794D-01	-0.5538D-05	-0.3453D+00	-0.2166D+00	-0.9590D-01	0.5885D+02			
struct1	0.2842D+01	0.1640D+00	0.1895D-04	0.1181D+01	0.7411D+00	0.3281D+00	-0.2013D+03			
cheat2	-0.1296D+01	-0.7481D-01	-0.8642D-05	-0.5388D+00	-0.3380D+00	-0.1496D+00	0.9183D+02			
cardex	0.5302D+01	0.3061D+00	0.3535D-04	0.2204D+01	0.1383D+01	0.6122D+00	-0.3757D+03			
fscd	-0.1604D-01	-0.9261D-03	-0.1070D-06	-0.6669D-02	-0.4184D-02	-0.1852D-02	0.1137D+01			
nc	-0.3405D+05	-0.1965D+04	-0.2270D+00	-0.1415D+05	-0.8880D+04	-0.3931D+04	0.2412D+07			
p	-0.1302D+02	-0.7518D+00	-0.8684D-04	-0.5414D+01	-0.3397D+01	-0.1504D+01	0.9228D+03			
rawem	0.8721D+01	0.5034D+00	0.5815D-04	0.3625D+01	0.2275D+01	0.1007D+01	-0.6180D+03			
tw	-0.5759D+01	-0.3325D+00	-0.3840D-04	-0.2394D+01	-0.1502D+01	-0.6650D+00	0.4081D+03			
tt	0.7224D+01	0.4170D+00	0.4817D-04	0.3003D+01	0.1884D+01	0.8341D+00	-0.5119D+03			

t2t	0.1000D+01	0.5772D-01	0.6668D-05	0.4157D+00	0.2608D+00	0.1155D+00	-0.7086D+02
tend	0.1732D+02	0.1000D+01	0.1155D-03	0.7202D+01	0.4518D+01	0.2000D+01	-0.1228D+04
shonf	0.1500D+06	0.8657D+04	0.1000D+01	0.6234D+05	0.3912D+05	0.1732D+05	-0.1063D+08
wd	0.2406D+01	0.1389D+00	0.1604D-04	0.1000D+01	0.6274D+00	0.2778D+00	-0.1704D+03
sat	0.3834D+01	0.2213D+00	0.2557D-04	0.1594D+01	0.1000D+01	0.4427D+00	-0.2717D+03
shd	0.8661D+01	0.4999D+00	0.5775D-04	0.3600D+01	0.2259D+01	0.1000D+01	-0.6137D+03
constant	-0.1411D-01	-0.8147D-03	-0.9411D-07	-0.5867D-02	-0.3681D-02	-0.1630D-02	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106665D+07
STD.ERROR	0.8078877D+06	0.7693359D+06
SKEWNESS	-0.6058193	-0.8194342

E(y) at the means : 0.3106665D+07

Sig(y) at the means : 0.2458635D+06

C.o.V. at the means : 0.0791406

Gam(y) at the means : -0.0011349

Pearson-R2 : 0.9068398

Pearson-R2 bar : 0.8897823

Pseudo-(1)-R2 : 0.9068398

Pseudo-(1)-R2 bar : 0.8897823

Error Variance : 0.6044424D+11

Log-likelihood : -0.2337512D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

Variant	sch	bcl	auhg
7	500	0.1D+01	0.1D-06
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

first entry to fcfn , parameters of current step follow - - f,x(i)
0.2690738768D+01 0.00000D+00 0.00000D+00 0.00000D+00 0.10000D+01 0.00000D+00 0.10000D+01

new absolute minimum , parameters for fcfn entry 5 follow - - f,x(i)
-0.2790192306D+02 0.16619D+00 -0.20253D+00 -0.20449D+00 0.43927D+00 0.90833D+00 0.92827D-01 0.10000D+01

new absolute minimum , parameters for fcfn entry 9 follow - - f,x(i)
-0.3106844855D+02 0.11134D+00 -0.28459D+00 -0.56615D-01 0.51102D+00 0.82059D+00 0.31490D+00 0.99553D+00

new absolute minimum , parameters for fcfn entry 13 follow - - f,x(i)
-0.3436386272D+02 0.21586D+00 -0.39303D+00 -0.20697D-01 0.42222D+00 0.70858D+00 0.72770D+00 0.97728D+00

new absolute minimum , parameters for fcfn entry 17 follow - - f,x(i)
-0.3668944133D+02 0.14306D+00 -0.24650D+00 -0.13422D+00 0.43807D+00 0.71854D+00 0.11601D+01 0.94388D+00

new absolute minimum , parameters for fcfn entry 19 follow - - f,x(i)
-0.3726589964D+02 0.18878D+00 -0.23766D+00 -0.97128D-01 0.47054D+00 0.94021D+00 0.13115D+01 0.98545D+00

new absolute minimum , parameters for fcfn entry 23 follow - - f,x(i)
-0.3745566039D+02 0.23960D+00 -0.18946D+00 -0.62760D-01 0.49250D+00 0.97540D+00 0.13455D+01 0.10057D+01

new absolute minimum , parameters for fcfn entry 26 follow - - f,x(i)
-0.3746577285D+02 0.23978D+00 -0.18562D+00 -0.67131D-01 0.49897D+00 0.98210D+00 0.13602D+01 0.10719D+01

new absolute minimum , parameters for fcfn entry 29 follow - - f,x(i)
-0.3747089023D+02 0.24937D+00 -0.18156D+00 -0.60553D-01 0.50746D+00 0.99433D+00 0.13772D+01 0.10673D+01

new absolute minimum , parameters for fcfn entry 31 follow - - f,x(i)
-0.3747826007D+02 0.25456D+00 -0.18806D+00 -0.56719D-01 0.51069D+00 0.99996D+00 0.14070D+01 0.10815D+01

new absolute minimum , parameters for fcfn entry 33 follow - - f,x(i)
-0.3747911466D+02 0.26025D+00 -0.18836D+00 -0.54758D-01 0.51056D+00 0.10035D+01 0.14082D+01 0.10799D+01

new absolute minimum , parameters for fcfn entry 35 follow - - f,x(i)
-0.3747922679D+02 0.26056D+00 -0.18840D+00 -0.55376D-01 0.51092D+00 0.10039D+01 0.14059D+01 0.10751D+01

new absolute minimum , parameters for fcfn entry 36 follow - - f,x(i)
-0.3747923418D+02 0.26064D+00 -0.18856D+00 -0.55152D-01 0.51102D+00 0.10046D+01 0.14054D+01 0.10741D+01

new absolute minimum , parameters for fcfn entry 38 follow - - f,x(i)
-0.3747923430D+02 0.26062D+00 -0.18855D+00 -0.55172D-01 0.51100D+00 0.10046D+01 0.14055D+01 0.10740D+01

new absolute minimum , parameters for fcfn entry 39 follow - - f,x(i)

```

-0.3747923430D+02  0.26062D+00 -0.18855D+00 -0.55171D-01  0.51100D+00  0.10046D+01  0.14055D+01  0.10740D+01
new absolute minimum , parameters for fcn entry   40  follow - - f,x(i)
-0.3747923430D+02  0.26062D+00 -0.18855D+00 -0.55171D-01  0.51100D+00  0.10046D+01  0.14055D+01  0.10740D+01
new absolute minimum , parameters for fcn entry   43  follow - - f,x(i)
-0.3747923430D+02  0.26062D+00 -0.18855D+00 -0.55171D-01  0.51100D+00  0.10046D+01  0.14055D+01  0.10740D+01

the function (fcn) has not improved by   0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.3747923430D+02  0.26062D+00 -0.18855D+00 -0.55171D-01  0.51100D+00  0.10046D+01  0.14055D+01  0.10740D+01

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3747923430D+02 for entry   43 - - x(i) follows
  0.26062D+00 -0.18855D+00 -0.55171D-01  0.51100D+00  0.10046D+01  0.14055D+01  0.10740D+01

run statistics follow - -

nfcn=   43 nst=   16

```

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.3106667D+07	0.3106932D+07
STD.ERROR	0.8078877D+06	0.7653183D+06
SKEWNESS	-0.6058193	-0.6683111

E(y) at the means : 0.3107183D+07

Sig(y) at the means : 0.1926859D+06

C.o.V. at the means : 0.0620130

Gam(y) at the means : -0.0032406

Pearson-R2 : 0.9321559

Pearson-R2 bar : 0.9155718

Pseudo-(1)-R2 : 0.8964791

Pseudo-(1)-R2 bar : 0.8711740

Error Variance : 0.1285359D+11

Log-likelihood : -0.2297342D+04

FINAL ESTIMATES

VARIABLE	LAMBDA (X)	COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
						y(sample)	E(y)	y(sample)	E(y)
						SIGMA(y)	GAMMA(y)	SIGMA(y)	GAMMA(y)
	type	group				-first obs	13	-first obs	170
						-last obs	181	-last obs	181
1 tlk	NL	0	0.3389279D+03	0.5880345D-11	0.1231449D+04 0.4994994D+03	0.2752 0.6785	0.0197 -0.0001	0.0212 -0.0001	0.0213 -0.0001
2 rfk	NL	0	-0.4891385D+05	0.2181710D-13	0.1532196D+06 0.4257315D+05	-0.3192 -1.1489	-0.0105 -0.0105	-0.0086 -0.0086	-0.0086 -0.0086
3 sfk	NL	0	-0.1100870D+05	0.9844624D-13	0.3603831D+05 0.9682092D+04	-0.3055 -1.1370	-0.0089 -0.0089	-0.0142 -0.0142	-0.0143 -0.0143
4 csfmr	NL	0	0.1707796D+04	0.8707450D-12	0.5811127D+04 0.1788236D+04	0.2939 0.9550	0.0128 -0.0001	0.0194 -0.0001	0.0195 -0.0001
5 rscmp	NL	0	0.3577129D+01	0.9273758D-08	0.1103966D+02 0.5547205D+00	0.3240 6.4485	0.3415 -0.0015	0.4126 -0.0015	0.4148 -0.0019
6 ex7	NL	0	0.2148657D+00	0.1948651D-08	0.6639677D+00 0.5494669D-01	0.3236 3.9104	0.0070 0.0000	0.0000 0.0000	0.0000 0.0000
7 ex8	NL	0	0.2256918D+00	0.3332799D-09	0.7421430D+00 0.3587468D+00	0.3041 0.6291	0.0017 0.0000	0.0000 0.0000	0.0000 0.0000
8 zsc	NL	0	0.2610490D+07	0.2835519D-14	0.8305083D+07 0.8312787D+06	0.3143 3.1403	0.0539 -0.0002	0.0000 0.0000	0.0000 0.0000
9 str	NL	0	-0.1247504D+06	0.5128500D-14	0.3848740D+06 0.1047142D+05	-0.3241 -11.9134	-0.0098 -0.0000	0.0000 0.0000	0.0000 0.0000
10 ant	NL	0	0.1394723D+07	0.1565525D-15	0.4935326D+07 0.1191326D+07	0.2826 1.1707	0.0025 0.0000	0.0000 0.0000	0.0000 0.0000
11 antl1	NL	0	-0.4573687D+06	0.1380577D-15	0.1818993D+07 0.1204990D+07	-0.2514 -0.3796	-0.0008 0.0000	0.0000 0.0000	0.0000 0.0000
12 struct1	NL	0	-0.1935403D+06	0.5972472D-14	0.7353257D+06 0.4281845D+06	-0.2632 -0.4520	-0.0215 0.0001	-0.0614 0.0001	-0.0618 0.0003

13	cheat2	NL	0	-0.1914200D+06	0.2154536D-14	0.7098813D+06 0.3346144D+06	-0.2697 -0.5721	-0.0051	-0.0421 -0.0051 0.0000 -0.0100	-0.0608	-0.0363 -0.0611 0.0003 -0.0359
14	cardex	NL	0	-0.9658103D+05	0.2223141D-14	0.3981744D+06 0.2253107D+06	-0.2426 -0.4287	-0.0031	-0.0031 0.0000 -0.0060	-0.0051	-0.0051 0.0000 -0.0030
15	fscd	EL	1	-0.2297059D+08	-0.2851957D-13	0.8676724D+08 0.8374462D+07	-0.2647 -2.7429	-0.4101	-0.4100 0.0018 -0.8022	-0.4409	-0.4433 0.0020 -0.2604
16	nc	EL	1	-0.1035854D+02	0.9044021D-08	0.8186895D+01 0.6125204D+01	-1.2653 -1.6911	-1.0356	-1.0354 0.0047 -2.0260	-1.6199	-1.6288 0.0075 -0.9568
17	p	EL	1	-0.3833357D+04	0.4190045D-11	0.3481724D+05 0.3284082D+05	-0.1101 -0.1167	-0.1657	-0.1656 0.0007 -0.3241	-0.2038	-0.2049 0.0009 -0.1204
18	rawem	EL	1	0.3370188D+05	0.2330868D-11	0.9056752D+05 0.3273341D+05	0.3721 1.0296	0.8232	0.8231 -0.0037 1.6105	1.0931	1.0992 -0.0050 0.6456
19	tw	EL	1	-0.2726827D+06	0.8900613D-13	0.7946443D+06 0.3133850D+06	-0.3432 -0.8701	-0.3310	-0.3309 0.0015 -0.6475	-0.4253	-0.4277 0.0020 -0.2512
20	tt	EL	1	-0.8679148D+04	0.6447913D-12	0.9803919D+05 0.9494565D+05	-0.0885 -0.0914	-0.0566	-0.0566 0.0003 -0.1107	-0.0534	-0.0537 0.0002 -0.0315
21	t2t	EL	1	0.2704278D+06	0.2664280D-12	0.8144561D+06 0.4064603D+06	0.3320 0.6653	0.8179	0.8178 -0.0037 1.6002	1.0138	1.0194 -0.0047 0.5988
22	tend	EL	1	0.2010398D+05	0.2334552D-11	0.4490841D+05 0.1153750D+05	0.4477 1.7425	0.5658	0.5658 0.6463 51462.3135	0.8769	0.8764 0.9621 27432.9971
23	shonf	EL	1	0.1338346D+01	0.6386859D-08	0.1076351D+01 0.8431043D+01	1.2434 1.5874	0.0906	0.0905 -0.0004 0.1772	0.1129	0.1136 -0.0005 0.0667
24	wd	EL	1	0.1126541D+06	0.6102728D-12	0.2905006D+06 0.4901823D+05	0.3878 2.2982	0.7145	0.7144 -0.0032 1.3979	0.7556	0.7598 -0.0035 0.4463
25	sat	EL	1	0.5402568D+05	0.1015655D-12	0.1692340D+06 0.6144996D+05	0.3192 0.8792	0.0710	0.0709 -0.0003 0.1388	0.0748	0.0752 -0.0003 0.0442
26	shd	EL	1	0.6141089D+05	0.1309260D-12	0.1814994D+06 0.4681321D+05	0.3384 1.3118	0.0980	0.0980 -0.0004 0.1917	0.1031	0.1037 -0.0005 0.0609
27	constant	NL	0	-0.2445318D+08	0.3043333D-13	0.8729044D+08 0.1034657D+08	-0.2801 -2.3634	-7.3448	-7.3437 0.0330 -14.3693	-7.7626	-7.8054 0.0359 -4.5848
Autocorrelation											
28	rho 1			0.2548782D+00	-0.2445175D-06	0.8814716D-01 0.8709037D-01	2.8915 2.9266				
29	rho 3			-0.1863469D+00	0.2426972D-05	0.1070786D+00 0.1034733D+00	-1.7403 -1.8009				
30	rho 4			-0.5511509D-01	0.1470994D-05	0.9628221D-01 0.9543179D-01	-0.5724 -0.5775				
31	rho 12			0.4707258D+00	0.1370667D-05	0.7405553D-01 0.7129381D-01	6.3564 6.6026				
Box-cox on (x)											
32	lambda(x) 1 = lambda(y)			0.1004630D+01	-0.2574895D-05	0.2091855D+00	4.8026 0.0221				
Heteroskedasticity											
33	delta 1			0.9994147D-02	0.1908067D-04	0.4425709D-01 0.1726029D-02	0.2258 5.7903	0.5658	0.5658 0.6463 0.5146D+05	0.8769	0.8764 0.9621 0.2743D+05
34	lambda(z) 1			0.1074042D+01	0.6456573D-06	0.1028651D+01	1.0441 0.0720				
Residual (w)											
35	error variance			0.1285359D+11	-0.2003328D-24	0.7795400D+11 0.3078166D+10	0.1649 4.1757				

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	0.3162625D+03	0.3162649D+03	-0.8822676D-01	-0.6454131D-06
2 rfk	-0.4564280D+05	-0.4564315D+05	0.1273283D+02	0.9314560D-04
3 sfk	-0.1027250D+05	-0.1027258D+05	0.2865688D+01	0.2096362D-04
4 csfmr	0.1593589D+04	0.1593602D+04	-0.4445586D+00	-0.3252120D-05
5 rscmp	0.3337913D+01	0.3337939D+01	-0.9311671D-03	-0.6811850D-08

6	ex7	0.2004968D+00	0.2004984D+00	-0.5593197D-04	-0.4091641D-09
7	ex8	0.2105990D+00	0.2106006D+00	-0.5875014D-04	-0.4297801D-09
8	zsc	0.2435917D+07	0.2435936D+07	-0.6795401D+03	-0.4971100D-02
9	str	-0.1164079D+06	-0.1164088D+06	0.3247395D+02	0.2375596D-03
10	ant	0.1301453D+07	0.1301463D+07	-0.3630622D+03	-0.2655942D-02
11	antl1	-0.4267828D+06	-0.4267860D+06	0.1190582D+03	0.8709574D-03
12	struct1	-0.1805976D+06	-0.1805989D+06	0.5038073D+02	0.3685547D-03
13	cheat2	-0.1786191D+06	-0.1786204D+06	0.4982879D+02	0.3645170D-03
14	cardex	-0.9012230D+05	-0.9012299D+05	0.2514113D+02	0.1839172D-03
15	fscd	-0.2115740D+08	-0.2115756D+08	0.5902214D+04	0.4317699D-01
16	nc	-0.1024918D+02	-0.1024926D+02	0.2859181D-02	0.2091603D-07
17	p	-0.3659868D+04	-0.3659896D+04	0.1020982D+01	0.7468880D-05
18	rawem	0.3209209D+05	0.3209234D+05	-0.8952630D+01	-0.6549197D-04
19	tw	-0.2560903D+06	-0.2560923D+06	0.7144070D+02	0.5226166D-03
20	tt	-0.8214430D+04	-0.8214493D+04	0.2291554D+01	0.1676361D-04
21	t2t	0.2550436D+06	0.2550455D+06	-0.7114870D+02	-0.5204805D-03
22	tend	0.1893201D+05	0.1893558D+05	0.1341214D+04	-0.1796205D+01
23	shonf	0.1321837D+01	0.1321847D+01	-0.3687487D-03	-0.2697540D-08
24	wd	0.1066087D+06	0.1066095D+06	-0.2974028D+02	-0.2175617D-03
25	sat	0.5075674D+05	0.5075713D+05	-0.1415945D+02	-0.1035819D-03
26	shd	0.5774690D+05	0.5774734D+05	-0.1610947D+02	-0.1178471D-03
27	constant	-0.2281790D+08	-0.2281808D+08	0.6365438D+04	0.4656566D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	-0.3585D+04	-0.4900D+09
SIGMA(y)	-0.2790D-03	0.1000D+01	0.1367D+06
GAMMA(y)	-0.2041D-08	0.7315D-05	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	-0.2223D+03	0.5111D+00
SIGMA(y)	-0.4498D-02	0.1000D+01	-0.2299D-02
GAMMA(y)	0.1957D+01	-0.4350D+03	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	tlk	rflk	sflk	csfmr	rscmp	ex7	ex8	zsc	str	ant
tlk		0.1000D+01	-0.1443D+03	-0.3248D+02	0.5039D+01	0.1055D-01	0.6340D-03	0.6659D-03	0.7702D+04	-0.3681D+03	0.4115D+04
rflk		-0.6929D-02	0.1000D+01	0.2251D+00	-0.3491D-01	-0.7313D-04	-0.4393D-05	-0.4614D-05	-0.5337D+02	0.2550D+01	-0.2851D+02
sflk		-0.3079D-01	0.4443D+01	0.1000D+01	-0.1551D+00	-0.3249D-03	-0.1952D-04	-0.2050D-04	-0.2371D+03	0.1133D+02	-0.1267D+03
csfmr		0.1985D+00	-0.2864D+02	-0.6446D+01	0.1000D+01	0.2095D-02	0.1258D-03	0.1322D-03	0.1529D+04	-0.7305D+02	0.8167D+03
rscmp		0.9475D+02	-0.1367D+05	-0.3078D+04	0.4774D+03	0.1000D+01	0.6007D-01	0.6309D-01	0.7298D+06	-0.3487D+05	0.3899D+06
ex7		0.1577D+04	-0.2276D+06	-0.5124D+05	0.7948D+04	0.1665D+02	0.1000D+01	0.1050D+01	0.1215D+08	-0.5806D+06	0.6491D+07
ex8		0.1502D+04	-0.2167D+06	-0.4878D+05	0.7567D+04	0.1585D+02	0.9520D+00	0.1000D+01	0.1157D+08	-0.5527D+06	0.6180D+07
zsc		0.1298D-03	-0.1874D-01	-0.4217D-02	0.6542D-03	0.1370D-05	0.8231D-07	0.8646D-07	0.1000D+01	-0.4779D-01	0.5343D+00
str		-0.2717D-02	0.3921D+00	0.8825D-01	-0.1369D-01	-0.2867D-04	-0.1722D-05	-0.1809D-05	-0.2093D+02	0.1000D+01	-0.1118D+02
ant		0.2430D-03	-0.3507D-01	-0.7893D-02	0.1224D-02	0.2565D-05	0.1541D-06	0.1618D-06	0.1872D+01	-0.8944D-01	0.1000D+01
antl1		-0.7410D-03	0.1069D+00	0.2407D-01	-0.3734D-02	-0.7821D-05	-0.4698D-06	-0.4935D-06	-0.5708D+01	0.2728D+00	-0.3049D+01

struct1	-0.1751D-02	0.2527D+00	0.5688D-01	-0.8824D-02	-0.1848D-04	-0.1110D-05	-0.1166D-05	-0.1349D+02	0.6446D+00	-0.7206D+01				
cheat2	-0.1771D-02	0.2555D+00	0.5751D-01	-0.8922D-02	-0.1869D-04	-0.1122D-05	-0.1179D-05	-0.1364D+02	0.6517D+00	-0.7286D+01				
cardex	-0.3509D-02	0.5065D+00	0.1140D+00	-0.1768D-01	-0.3704D-04	-0.2225D-05	-0.2337D-05	-0.2703D+02	0.1292D+01	-0.1444D+02				
fscd	-0.1495D-04	0.2157D-02	0.4855D-03	-0.7532D-04	-0.1578D-06	-0.9476D-08	-0.9954D-08	-0.1151D+00	0.5502D-02	-0.6151D-01				
nc	-0.3086D+02	0.4453D+04	0.1002D+04	-0.1555D+03	-0.3257D+00	-0.1956D-01	-0.2055D-01	-0.2377D+06	0.1136D+05	-0.1270D+06				
p	-0.8641D-01	0.1247D+02	0.2807D+01	-0.4354D+00	-0.9120D-03	-0.5478D-04	-0.5754D-04	-0.6656D+03	0.3181D+02	-0.3556D+03				
rawem	0.9855D-02	-0.1422D+01	-0.3201D+00	0.4966D-01	0.1040D-03	0.6248D-05	0.6562D-05	0.7590D+02	-0.3627D+01	0.4055D+02				
tw	-0.1235D-02	0.1782D+00	0.4011D-01	-0.6223D-02	-0.1303D-04	-0.7829D-06	-0.8224D-06	-0.9512D+01	0.4546D+00	-0.5082D+01				
tt	-0.3850D-01	0.5556D+01	0.1251D+01	-0.1940D+00	-0.4063D-03	-0.2441D-04	-0.2564D-04	-0.2965D+03	0.1417D+02	-0.1584D+03				
t2t	0.1240D-02	-0.1790D+00	-0.4028D-01	0.6248D-02	0.1309D-04	0.7861D-06	0.8257D-06	0.9551D+01	-0.4564D+00	0.5103D+01				
tend	0.1670D-01	-0.2410D+01	-0.5425D+00	0.8416D-01	0.1763D-03	0.1059D-04	0.1112D-04	0.1286D+03	-0.6148D+01	0.6873D+02				
shonf	0.2393D+03	-0.3453D+05	-0.7771D+04	0.1206D+04	0.2525D+01	0.1517D+00	0.1593D+00	0.1843D+07	-0.8807D+05	0.9846D+06				
wd	0.2967D-02	-0.4281D+00	-0.9636D-01	0.1495D-01	0.3131D-04	0.1881D-05	0.1975D-05	0.2285D+02	-0.1092D+01	0.1221D+02				
sat	0.6231D-02	-0.8992D+00	-0.2024D+00	0.3140D-01	0.6576D-04	0.3950D-05	0.4149D-05	0.4799D+02	-0.2293D+01	0.2564D+02				
shd	0.5477D-02	-0.7904D+00	-0.1779D+00	0.2760D-01	0.5780D-04	0.3472D-05	0.3647D-05	0.4218D+02	-0.2016D+01	0.2254D+02				
constant	-0.1386D-04	0.2000D-02	0.4502D-03	-0.6984D-04	-0.1463D-06	-0.8787D-08	-0.9230D-08	-0.1068D+00	0.5102D-02	-0.5704D-01				
=====														
X(l)	X(k)	ant11	struct1	cheat2	cardex	fscd	nc	p	rawem	tw	tt			
=====														
tlk	-0.1349D+04	-0.5710D+03	-0.5648D+03	-0.2850D+03	-0.6690D+05	-0.3241D-01	-0.1157D+02	0.1015D+03	-0.8097D+03	-0.2597D+02				
rfk	0.9350D+01	0.3957D+01	0.3913D+01	0.1975D+01	0.4635D+03	0.2246D-03	0.8018D-01	-0.7031D+00	0.5611D+01	0.1800D+00				
sfk	0.4155D+02	0.1758D+02	0.1739D+02	0.8773D+01	0.2060D+04	0.9977D-03	0.3563D+00	-0.3124D+01	0.2493D+02	0.7997D+00				
csfmr	-0.2678D+03	-0.1133D+03	-0.1121D+03	-0.5655D+02	-0.1328D+05	-0.6432D-02	-0.2297D+01	0.2014D+02	-0.1607D+03	-0.5155D+01				
rscmp	-0.1279D+06	-0.5410D+05	-0.5351D+05	-0.2700D+05	-0.6339D+07	-0.3071D+01	-0.1096D+04	0.9614D+04	-0.7672D+05	-0.2461D+04				
ex7	-0.2129D+07	-0.9008D+06	-0.8909D+06	-0.4495D+06	-0.1055D+09	-0.5112D+02	-0.1825D+05	0.1601D+06	-0.1277D+07	-0.4097D+05				
ex8	-0.2027D+07	-0.8575D+06	-0.8481D+06	-0.4279D+06	-0.1005D+09	-0.4867D+02	-0.1738D+05	0.1524D+06	-0.1216D+07	-0.3901D+05				
zsc	-0.1752D+00	-0.7414D-01	-0.7333D-01	-0.3700D-01	-0.8686D+01	-0.4208D-05	-0.1502D-02	0.1317D-01	-0.1051D+00	-0.3372D-02				
str	0.3666D+01	0.1551D+01	0.1534D+01	0.7742D+00	0.1818D+03	0.8805D-04	0.3144D-01	-0.2757D+00	0.2200D+01	0.7057D-01				
ant	-0.3279D+00	-0.1388D+00	-0.1372D+00	-0.6925D-01	-0.1626D+02	-0.7875D-05	-0.2812D-02	0.2466D-01	-0.1968D+00	-0.6312D-02				
ant11	0.1000D+01	0.4232D+00	0.4185D+00	0.2112D+00	0.4957D+02	0.2401D-04	0.8575D-02	-0.7520D-01	0.6000D+00	0.1925D-01				
struct1	0.2363D+01	0.1000D+01	0.9890D+00	0.4990D+00	0.1172D+03	0.5675D-04	0.2027D-01	-0.1777D+00	0.1418D+01	0.4548D-01				
cheat2	0.2389D+01	0.1011D+01	0.1000D+01	0.5046D+00	0.1184D+03	0.5738D-04	0.2049D-01	-0.1797D+00	0.1434D+01	0.4599D-01				
cardex	0.4736D+01	0.2004D+01	0.1982D+01	0.1000D+01	0.2348D+03	0.1137D-03	0.4061D-01	-0.3561D+00	0.2842D+01	0.9115D-01				
fscd	0.2017D-01	0.8536D-02	0.8442D-02	0.4260D-02	0.1000D+01	0.4844D-06	0.1730D-03	-0.1517D-02	0.1210D-01	0.3883D-03				
nc	0.4164D+05	0.1762D+05	0.1743D+05	0.8793D+04	0.2064D+07	0.1000D+01	0.3571D+03	-0.3131D+04	0.2499D+05	0.8015D+03				
p	0.1166D+03	0.4935D+02	0.4880D+02	0.2462D+02	0.5781D+04	0.2800D-02	0.1000D+01	-0.8769D+01	0.6997D+02	0.2244D+01				
rawem	-0.1330D+02	-0.5627D+01	-0.5566D+01	-0.2808D+01	-0.6593D+03	-0.3194D-03	-0.1140D+00	0.1000D+01	-0.7980D+01	-0.2560D+00				
tw	0.1667D+01	0.7052D+00	0.6975D+00	0.3519D+00	0.8262D+02	0.4002D-04	0.1429D-01	-0.1253D+00	0.1000D+01	0.3208D-01				
tt	0.5196D+02	0.2199D+02	0.2174D+02	0.1097D+02	0.2576D+04	0.1248D-02	0.4455D+00	-0.3907D+01	0.3118D+02	0.1000D+01				
t2t	-0.1673D+01	-0.7081D+00	-0.7003D+00	-0.3534D+00	-0.8296D+02	-0.4019D-04	-0.1435D-01	0.1258D+00	-0.1004D+01	-0.3221D-01				
tend	-0.2254D+02	-0.9538D+01	-0.9433D+01	-0.4759D+01	-0.1117D+04	-0.5413D-03	-0.1933D+00	0.1695D+01	-0.1352D+02	-0.4338D+00				
shonf	-0.3229D+06	-0.1366D+06	-0.1351D+06	-0.6818D+05	-0.1601D+08	-0.7754D+01	-0.2769D+04	0.2428D+05	-0.1937D+06	-0.6214D+04				
wd	-0.4003D+01	-0.1694D+01	-0.1675D+01	-0.8454D+00	-0.1985D+03	-0.9614D-04	-0.3433D-01	0.3010D+00	-0.2402D+01	-0.7705D-01				
sat	-0.8408D+01	-0.3558D+01	-0.3519D+01	-0.1776D+01	-0.4168D+03	-0.2019D-03	-0.7211D-01	0.6323D+00	-0.5045D+01	-0.1618D+00				
shd	-0.7391D+01	-0.3127D+01	-0.3093D+01	-0.1561D+01	-0.3664D+03	-0.1775D-03	-0.6338D-01	0.5557D+00	-0.4435D+01	-0.1422D+00				
constant	0.1870D-01	0.7915D-02	0.7828D-02	0.3950D-02	0.9272D+00	0.4492D-06	0.1604D-03	-0.1406D-02	0.1122D-01	0.3600D-03				
=====														
X(l)	X(k)	t2t	tend	shonf	wd	sat	shd	constant						
=====														
tlk	0.8064D+03	0.5987D+02	0.4180D-02	0.3371D+03	0.1605D+03	0.1826D+03	-0.7215D+05							
rfk	-0.5588D+01	-0.4149D+00	-0.2896D-04	-0.2336D+01	-0.1112D+01	-0.1265D+01	0.4999D+03							
sfk	-0.2483D+02	-0.1843D+01	-0.1287D-03	-0.1038D+02	-0.4941D+01	-0.5622D+01	0.2221D+04							

csfmr	0.1600D+03	0.1188D+02	0.8295D-03	0.6690D+02	0.3185D+02	0.3624D+02	-0.1432D+05
rscmp	0.7641D+05	0.5673D+04	0.3960D+00	0.3194D+05	0.1521D+05	0.1730D+05	-0.6836D+07
ex7	0.1272D+07	0.9444D+05	0.6593D+01	0.5317D+06	0.2532D+06	0.2880D+06	-0.1138D+09
ex8	0.1211D+07	0.8991D+05	0.6277D+01	0.5062D+06	0.2410D+06	0.2742D+06	-0.1083D+09
zsc	0.1047D+00	0.7773D-02	0.5426D-06	0.4377D-01	0.2084D-01	0.2371D-01	-0.9367D+01
str	-0.2191D+01	-0.1627D+00	-0.1136D-04	-0.9158D+00	-0.4360D+00	-0.4961D+00	0.1960D+03
ant	0.1960D+00	0.1455D-01	0.1016D-05	0.8192D-01	0.3900D-01	0.4437D-01	-0.1753D+02
antl1	-0.5976D+00	-0.4437D-01	-0.3097D-05	-0.2498D+00	-0.1189D+00	-0.1353D+00	0.5346D+02
struct1	-0.1412D+01	-0.1048D+00	-0.7319D-05	-0.5903D+00	-0.2810D+00	-0.3198D+00	0.1263D+03
cheat2	-0.1428D+01	-0.1060D+00	-0.7400D-05	-0.5968D+00	-0.2842D+00	-0.3233D+00	0.1277D+03
cardex	-0.2830D+01	-0.2101D+00	-0.1467D-04	-0.1183D+01	-0.5632D+00	-0.6408D+00	0.2532D+03
fscd	-0.1205D-01	-0.8950D-03	-0.6248D-07	-0.5039D-02	-0.2399D-02	-0.2729D-02	0.1078D+01
nc	-0.2488D+05	-0.1848D+04	-0.1290D+00	-0.1040D+05	-0.4952D+04	-0.5634D+04	0.2226D+07
p	-0.6969D+02	-0.5174D+01	-0.3612D-03	-0.2913D+02	-0.1387D+02	-0.1578D+02	0.6235D+04
rawem	0.7947D+01	0.5900D+00	0.4119D-04	0.3322D+01	0.1582D+01	0.1799D+01	-0.7110D+03
tw	-0.9959D+00	-0.7394D-01	-0.5162D-05	-0.4163D+00	-0.1982D+00	-0.2255D+00	0.8910D+02
tt	-0.3105D+02	-0.2305D+01	-0.1609D-03	-0.1298D+02	-0.6179D+01	-0.7030D+01	0.2778D+04
t2t	0.1000D+01	0.7424D-01	0.5183D-05	0.4180D+00	0.1990D+00	0.2264D+00	-0.8947D+02
tend	0.1347D+02	0.1000D+01	0.6981D-04	0.5630D+01	0.2681D+01	0.3050D+01	-0.1205D+04
shonf	0.1929D+06	0.1433D+05	0.1000D+01	0.8065D+05	0.3840D+05	0.4369D+05	-0.1726D+08
wd	0.2392D+01	0.1776D+00	0.1240D-04	0.1000D+01	0.4761D+00	0.5417D+00	-0.2140D+03
sat	0.5025D+01	0.3731D+00	0.2604D-04	0.2100D+01	0.1000D+01	0.1138D+01	-0.4496D+03
shd	0.4417D+01	0.3279D+00	0.2289D-04	0.1846D+01	0.8790D+00	0.1000D+01	-0.3951D+03
constant	-0.1118D-01	-0.8298D-03	-0.5793D-07	-0.4672D-02	-0.2224D-02	-0.2531D-02	0.1000D+01

Log-likelihood

```

- initial value :      -2337.5120
- final value   :      -2297.3421
- ratio test    :           80.3399

```

```

Pearson-r2      :           0.9322
Pearson-r2 bar  :           0.9156
Pseudo-(1)-r2   :           0.8965
Pseudo-(1)-r2 bar :          0.8712
Std-error of (w) :      113373.6588

```

```

Number of observations   first-last obs.no.
- sample      :      181           1 -      181
- estimation   :      169          13 -      181

```

CPU TIME: 0.43 sec

Output file 5: ad_bc1auhg.txt

```

&CARD1
NOBS   =      181,
NC      =       13,
NF      =      181,
NFP     =      181,
NOBEL   =       12,
NM       =        0,
NSTEP   =      500,
EPSI    = 1.000000000000000E-007,
WGHT    = 1.000000000000000
/
&CARD2
NB      =       27,
NRO     =        2,

```

```

NSL      =      15,
NGF      =      0,
MAXF     =      0,
NGV      =      1,
MAXV     =      12,
NLY      =      2,
NDM      =      1,
NLE      =      1,
ND       =      1
/
$CARD3
NCOR     =      0,
NRES     =      0,
NPW      =      0,
NGUVW    =      0,
NPDQL    =      0,
NCOV     =      0,
NEY      =      0,
VARNAME  = a_bclauhg,
NVARIANT =      5
/

```

Working space used : 14410 out of 500000

```

autocorrelation of orders:      1      12
rho initial values:  0.000000000000000E+000  0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15

```

```

group      1 (estimated lambda(x))
initial value:  1.000000000000000
variable no.
 16 17 18 19 20 21 22 23 24 25 26 27

```

```

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value:  1.000000000000000
upper limit for y  0.000000000000000E+000

```

```

Heteroscedasticity
variables: shonf
delta initial values:  0.000000000000000E+000
lambda(z) initial values:  1.000000000000000

```

no.	variable	minimum	mean	maximum	null obs.
	xcanfa	0.94771D+07	0.20334D+08	0.31106D+08	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	rfl	0.00000D+00	0.71459D+00	0.20581D+01	2
3	sfl	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rcutp	0.00000D+00	0.22657D+05	0.70227D+05	9
6	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	ex9	0.00000D+00	0.13137D+05	0.88493D+06	177
9	ex0	0.00000D+00	0.11371D+05	0.68509D+06	177
10	ex1	0.00000D+00	0.10163D+05	0.67270D+06	177
11	str	0.00000D+00	0.24309D+00	0.20000D+02	178
12	za	0.00000D+00	0.48323D-01	0.97975D-01	73
13	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
14	ant11	0.00000D+00	0.55249D-02	0.10000D+01	180
15	fir	0.00000D+00	0.12155D+00	0.22000D+02	180
16	fad	0.12012D+00	0.16347D+00	0.23153D+00	0
17	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
18	p	0.12030D+03	0.13936D+03	0.16661D+03	0
19	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
20	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
21	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
22	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
23	eanfp	0.56603D+08	0.12411D+09	0.14653D+09	0
24	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
25	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
26	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
27	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
28	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)	COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
						y (sample)	E (y)	y (sample)	E (y)
						SIGMA (y)	GAMMA (y)	SIGMA (y)	GAMMA (y)
	type	group				-first obs	13	-first obs	170
						-last obs	181	-last obs	181
1 tlk	NL	0	-0.1792510D+03	0.1936095D+03	0.6352445D+03	-0.2822	-0.0017	-0.0017	-0.0018
							0.0000	0.0000	0.0000
							-0.0051	-0.0051	-0.0055
2 rfl	NL	0	-0.3188246D+06	0.7128659D+00	0.1137312D+06	-2.8033	-0.0112	-0.0112	-0.0093
							0.0000	0.0000	0.0000
							-0.0337	-0.0337	-0.0278

3	sfk	NL	0	-0.3314698D+05	0.2689872D+01	0.2170986D+05	-1.5268	-0.0044	-0.0044 0.0000 -0.0132	-0.0071	-0.0071 0.0000 -0.0212
4	csfmr	NL	0	0.1480815D+05	0.2501124D+02	0.2395147D+04	6.1826	0.0183	0.0183 0.0000 0.0549	0.0278	0.0278 0.0000 0.0833
5	rcutp	NL	0	0.1330499D+02	0.2350880D+05	0.4429091D+01	3.0040	0.0155	0.0155 0.0000 0.0464	0.0299	0.0299 0.0000 0.0896
6	ex7	NL	0	0.2539654D+01	0.1081862D+06	0.1001972D+00	25.3465	0.0136	0.0136 0.0000 0.0408	0.0000	0.0000 0.0000 0.0000
7	ex8	NL	0	0.2620219D+01	0.2437638D+05	0.3741561D+00	7.0030	0.0032	0.0032 0.0000 0.0095	0.0000	0.0000 0.0000 0.0000
8	ex9	NL	0	0.2028289D+01	0.1406952D+05	0.5227259D+00	3.8802	0.0014	0.0014 0.0000 0.0042	0.0000	0.0000 0.0000 0.0000
9	ex0	NL	0	0.1543082D+01	0.1217808D+05	0.6141349D+00	2.5126	0.0009	0.0009 0.0000 0.0028	0.0000	0.0000 0.0000 0.0000
10	ex1	NL	0	0.1580550D+01	0.1088501D+05	0.7062033D+00	2.2381	0.0009	0.0009 0.0000 0.0026	0.0127	0.0127 0.0000 0.0381
11	str	NL	0	-0.7272685D+06	0.2603550D+00	0.2156229D+05	-33.7287	-0.0094	-0.0094 0.0000 -0.0281	0.0000	0.0000 0.0000 0.0000
12	za	NL	0	0.5252701D+07	0.4666435D-01	0.2717340D+07	1.9330	0.0121	0.0121 0.0000 0.0364	0.0000	0.0000 0.0000 0.0000
13	ant	NL	0	-0.9840017D+06	0.5917160D-02	0.5676909D+06	-1.7333	-0.0003	-0.0003 0.0000 -0.0009	0.0000	0.0000 0.0000 0.0000
14	ant11	NL	0	0.6682495D+06	0.5917160D-02	0.5630043D+06	1.1869	0.0002	0.0002 0.0000 0.0006	0.0000	0.0000 0.0000 0.0000
15	fir	NL	0	-0.6974621D+05	0.1301775D+00	0.2891161D+05	-2.4124	-0.0004	-0.0004 0.0000 -0.0013	-0.0067	-0.0067 0.0000 -0.0201
16	fad	EL	1	-0.1437233D+08	0.1662501D+00	0.5102497D+07	-2.8167	-0.1181	-0.1181 -0.0001 -0.3545	-0.1668	-0.1668 -0.0001 -0.5008
17	nc	EL	1	-0.2121613D+02	0.3138985D+06	0.8455320D+01	-2.5092	-0.3293	-0.3293 -0.0003 -0.9880	-0.5157	-0.5160 -0.0005 -1.5486
18	p	EL	1	0.4315363D+05	0.1406331D+03	0.5574180D+05	0.7742	0.3001	0.3001 0.0003 0.9003	0.3700	0.3702 0.0003 1.1111
19	rawem	EL	1	0.1521868D+06	0.7968800D+02	0.3690072D+05	4.1242	0.5996	0.5996 0.0006 1.7992	0.7979	0.7983 0.0007 2.3959
20	tw	EL	1	-0.1708323D+07	0.4015184D+01	0.3268564D+06	-5.2265	-0.3391	-0.3391 -0.0003 -1.0176	-0.4368	-0.4370 -0.0004 -1.3115
21	tt	EL	1	-0.4508439D+06	0.2140038D+02	0.5270799D+05	-8.5536	-0.4770	-0.4770 -0.0005 -1.4314	-0.4518	-0.4520 -0.0004 -1.3565
22	t2t	EL	1	-0.5845284D+06	0.9963177D+01	0.1864955D+06	-3.1343	-0.2879	-0.2879 -0.0003 -0.8640	-0.3577	-0.3579 -0.0003 -1.0742
23	eanfp	EL	1	0.2303362D-01	0.1234865D+09	0.3569380D-02	6.4531	0.1406	0.1406 0.0001 0.4220	0.1394	0.1395 0.0001 0.4187
24	shonf	EL	1	0.7261563D+01	0.2128346D+06	0.1088130D+01	6.6734	0.0764	0.0764 0.0001 0.2293	0.0955	0.0956 0.0001 0.2869
25	wd	EL	1	0.5338347D+06	0.2082249D+02	0.6216567D+05	8.5873	0.5496	0.5496 0.0005 1.6491	0.5830	0.5833 0.0005 1.7505
26	sat	EL	1	0.3484219D+06	0.4343195D+01	0.1047915D+06	3.3249	0.0748	0.0748 0.0001 0.2245	0.0791	0.0792 0.0001 0.2376
27	shd	EL	1	0.3578399D+06	0.5272189D+01	0.7526101D+05	4.7547	0.0933	0.0933 0.0001 0.2799	0.0985	0.0985 0.0001 0.2957
28	constant	NL	0	-0.1957007D+07	0.1000000D+01	0.8855567D+07	-0.2210	-0.0968	-0.0968 -0.0001 -0.2903	-0.1026	-0.1026 -0.0001 -0.3080

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	-0.1792510D+03	-0.1792509D+03	-0.4274989D-02	0.1095631D-05
2 rfk	-0.3188246D+06	-0.3188244D+06	-0.7603705D+01	0.1948742D-02
3 sfk	-0.3314698D+05	-0.3314697D+05	-0.7905284D+00	0.2026034D-03
4 csfmr	0.1480815D+05	0.1480814D+05	0.3531622D+00	-0.9051142D-04
5 rcutp	0.1330499D+02	0.1330498D+02	0.3173131D-03	-0.8132370D-07

6	ex7	0.2539654D+01	0.2539652D+01	0.6056866D-04	-0.1552305D-07
7	ex8	0.2620219D+01	0.2620218D+01	0.6249008D-04	-0.1601549D-07
8	ex9	0.2028289D+01	0.2028287D+01	0.4837302D-04	-0.1239745D-07
9	ex0	0.1543082D+01	0.1543081D+01	0.3680124D-04	-0.9431734D-08
10	ex1	0.1580550D+01	0.1580549D+01	0.3769483D-04	-0.9660753D-08
11	str	-0.7272685D+06	-0.7272681D+06	-0.1734476D+02	0.4445262D-02
12	za	0.5252701D+07	0.5252698D+07	0.1252726D+03	-0.3210593D-01
13	ant	-0.9840017D+06	-0.9840011D+06	-0.2346763D+02	0.6014485D-02
14	ant11	0.6682495D+06	0.6682491D+06	0.1593720D+02	-0.4084522D-02
15	fir	-0.6974621D+05	-0.6974617D+05	-0.1663390D+01	0.4263078D-03
16	fad	-0.1437233D+08	-0.1437232D+08	-0.3427682D+03	0.8784756D-01
17	nc	-0.2121613D+02	-0.2121611D+02	-0.5059873D-03	0.1296787D-06
18	p	0.4315363D+05	0.4315360D+05	0.1029179D+01	-0.2637667D-03
19	rawem	0.1521868D+06	0.1521868D+06	0.3629531D+01	-0.9302073D-03
20	tw	-0.1708323D+07	-0.1708322D+07	-0.4074211D+02	0.1044174D-01
21	tt	-0.4508439D+06	-0.4508436D+06	-0.1075226D+02	0.2755680D-02
22	t2t	-0.5845284D+06	-0.5845281D+06	-0.1394052D+02	0.3572796D-02
23	eanfp	0.2303362D-01	0.2303361D-01	0.5493330D-06	-0.1407877D-09
24	shonf	0.7261563D+01	0.7261559D+01	0.1731823D-03	-0.4438464D-07
25	wd	0.5338347D+06	0.5338343D+06	0.1273152D+02	-0.3262942D-02
26	sat	0.3484219D+06	0.3484217D+06	0.8309577D+01	-0.2129649D-02
27	shd	0.3578399D+06	0.3578397D+06	0.8534189D+01	-0.2187215D-02
28	constant	-0.1957007D+07	-0.1957006D+07	-0.4667301D+02	0.1196176D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.4193D+05	-0.1636D+09
SIGMA(y)	0.2385D-04	0.1000D+01	-0.3902D+04
GAMMA(y)	-0.6112D-08	-0.2563D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1008D+04	0.3333D+00
SIGMA(y)	0.9921D-03	0.1000D+01	0.3307D-03
GAMMA(y)	0.3000D+01	0.3024D+04	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) t1k	r1k	s1k	csfmr	rcutp	ex7	ex8	ex9	ex0	ex1
t1k	0.1000D+01	0.1779D+04	0.1849D+03	-0.8261D+02	-0.7423D-01	-0.1417D-01	-0.1462D-01	-0.1132D-01	-0.8608D-02	-0.8818D-02
r1k	0.5622D-03	0.1000D+01	0.1040D+00	-0.4645D-01	-0.4173D-04	-0.7966D-05	-0.8218D-05	-0.6362D-05	-0.4840D-05	-0.4957D-05
s1k	0.5408D-02	0.9619D+01	0.1000D+01	-0.4467D+00	-0.4014D-03	-0.7662D-04	-0.7905D-04	-0.6119D-04	-0.4655D-04	-0.4768D-04
csfmr	-0.1210D-01	-0.2153D+02	-0.2238D+01	0.1000D+01	0.8985D-03	0.1715D-03	0.1769D-03	0.1370D-03	0.1042D-03	0.1067D-03
rcutp	-0.1347D+02	-0.2396D+05	-0.2491D+04	0.1113D+04	0.1000D+01	0.1909D+00	0.1969D+00	0.1524D+00	0.1160D+00	0.1188D+00
ex7	-0.7058D+02	-0.1255D+06	-0.1305D+05	0.5831D+04	0.5239D+01	0.1000D+01	0.1032D+01	0.7986D+00	0.6076D+00	0.6223D+00
ex8	-0.6841D+02	-0.1217D+06	-0.1265D+05	0.5651D+04	0.5078D+01	0.9693D+00	0.1000D+01	0.7741D+00	0.5889D+00	0.6032D+00
ex9	-0.8838D+02	-0.1572D+06	-0.1634D+05	0.7301D+04	0.6560D+01	0.1252D+01	0.1292D+01	0.1000D+01	0.7608D+00	0.7793D+00
ex0	-0.1162D+03	-0.2066D+06	-0.2148D+05	0.9596D+04	0.8622D+01	0.1646D+01	0.1698D+01	0.1314D+01	0.1000D+01	0.1024D+01
ex1	-0.1134D+03	-0.2017D+06	-0.2097D+05	0.9369D+04	0.8418D+01	0.1607D+01	0.1658D+01	0.1283D+01	0.9763D+00	0.1000D+01

str	0.2465D-03	0.4384D+00	0.4558D-01	-0.2036D-01	-0.1829D-04	-0.3492D-05	-0.3603D-05	-0.2789D-05	-0.2122D-05	-0.2173D-05
za	-0.3413D-04	-0.6070D-01	-0.6310D-02	0.2819D-02	0.2533D-05	0.4835D-06	0.4988D-06	0.3861D-06	0.2938D-06	0.3009D-06
ant	0.1822D-03	0.3240D+00	0.3369D-01	-0.1505D-01	-0.1352D-04	-0.2581D-05	-0.2663D-05	-0.2061D-05	-0.1568D-05	-0.1606D-05
antl1	-0.2682D-03	-0.4771D+00	-0.4960D-01	0.2216D-01	0.1991D-04	0.3800D-05	0.3921D-05	0.3035D-05	0.2309D-05	0.2365D-05
fir	0.2570D-02	0.4571D+01	0.4753D+00	-0.2123D+00	-0.1908D-03	-0.3641D-04	-0.3757D-04	-0.2908D-04	-0.2212D-04	-0.2266D-04
fad	0.1247D-04	0.2218D-01	0.2306D-02	-0.1030D-02	-0.9257D-06	-0.1767D-06	-0.1823D-06	-0.1411D-06	-0.1074D-06	-0.1100D-06
nc	0.8449D+01	0.1503D+05	0.1562D+04	-0.6980D+03	-0.6271D+00	-0.1197D+00	-0.1235D+00	-0.9560D-01	-0.7273D-01	-0.7450D-01
p	-0.4154D-02	-0.7388D+01	-0.7681D+00	0.3431D+00	0.3083D-03	0.5885D-04	0.6072D-04	0.4700D-04	0.3576D-04	0.3663D-04
rawem	-0.1178D-02	-0.2095D+01	-0.2178D+00	0.9730D-01	0.8743D-04	0.1669D-04	0.1722D-04	0.1333D-04	0.1014D-04	0.1039D-04
tw	0.1049D-03	0.1866D+00	0.1940D-01	-0.8668D-02	-0.7788D-05	-0.1487D-05	-0.1534D-05	-0.1187D-05	-0.9033D-06	-0.9252D-06
tt	0.3976D-03	0.7072D+00	0.7352D-01	-0.3285D-01	-0.2951D-04	-0.5633D-05	-0.5812D-05	-0.4499D-05	-0.3423D-05	-0.3506D-05
t2t	0.3067D-03	0.5454D+00	0.5671D-01	-0.2533D-01	-0.2276D-04	-0.4345D-05	-0.4483D-05	-0.3470D-05	-0.2640D-05	-0.2704D-05
eanfp	-0.7782D+04	-0.1384D+08	-0.1439D+07	0.6429D+06	0.5776D+03	0.1103D+03	0.1138D+03	0.8806D+02	0.6699D+02	0.6862D+02
shonf	-0.2468D+02	-0.4391D+05	-0.4565D+04	0.2039D+04	0.1832D+01	0.3497D+00	0.3608D+00	0.2793D+00	0.2125D+00	0.2177D+00
wd	-0.3358D-03	-0.5972D+00	-0.6209D-01	0.2774D-01	0.2492D-04	0.4757D-05	0.4908D-05	0.3799D-05	0.2891D-05	0.2961D-05
sat	-0.5145D-03	-0.9151D+00	-0.9513D-01	0.4250D-01	0.3819D-04	0.7289D-05	0.7520D-05	0.5821D-05	0.4429D-05	0.4536D-05
shd	-0.5009D-03	-0.8910D+00	-0.9263D-01	0.4138D-01	0.3718D-04	0.7097D-05	0.7322D-05	0.5668D-05	0.4312D-05	0.4417D-05
constant	0.9159D-04	0.1629D+00	0.1694D-01	-0.7567D-02	-0.6799D-05	-0.1298D-05	-0.1339D-05	-0.1036D-05	-0.7885D-06	-0.8076D-06
X(k)	str	za	ant	antl1	fir	fad	nc	p	rawem	tw
X(l)										
tlk	0.4057D+04	-0.2930D+05	0.5490D+04	-0.3728D+04	0.3891D+03	0.8018D+05	0.1184D+00	-0.2407D+03	-0.8490D+03	0.9530D+04
rfk	0.2281D+01	-0.1648D+02	0.3086D+01	-0.2096D+01	0.2188D+00	0.4508D+02	0.6654D-04	-0.1354D+00	-0.4773D+00	0.5358D+01
sfk	0.2194D+02	-0.1585D+03	0.2969D+02	-0.2016D+02	0.2104D+01	0.4336D+03	0.6401D-03	-0.1302D+01	-0.4591D+01	0.5154D+02
csfmr	-0.4911D+02	0.3547D+03	-0.6645D+02	0.4513D+02	-0.4710D+01	-0.9706D+03	-0.1433D-02	0.2914D+01	0.1028D+02	-0.1154D+03
rcutp	-0.5466D+05	0.3948D+06	-0.7396D+05	0.5023D+05	-0.5242D+04	-0.1080D+07	-0.1595D+01	0.3243D+04	0.1144D+05	-0.1284D+06
ex7	-0.2864D+06	0.2068D+07	-0.3875D+06	0.2631D+06	-0.2746D+05	-0.5659D+07	-0.8354D+01	0.1699D+05	0.5992D+05	-0.6727D+06
ex8	-0.2776D+06	0.2005D+07	-0.3755D+06	0.2550D+06	-0.2662D+05	-0.5485D+07	-0.8097D+01	0.1647D+05	0.5808D+05	-0.6520D+06
ex9	-0.3586D+06	0.2590D+07	-0.4851D+06	0.3295D+06	-0.3439D+05	-0.7086D+07	-0.1046D+02	0.2128D+05	0.7503D+05	-0.8422D+06
ex0	-0.4713D+06	0.3404D+07	-0.6377D+06	0.4331D+06	-0.4520D+05	-0.9314D+07	-0.1375D+02	0.2797D+05	0.9863D+05	-0.1107D+07
ex1	-0.4601D+06	0.3323D+07	-0.6226D+06	0.4228D+06	-0.4413D+05	-0.9093D+07	-0.1342D+02	0.2730D+05	0.9629D+05	-0.1081D+07
str	0.1000D+01	-0.7223D+01	0.1353D+01	-0.9188D+00	0.9590D-01	0.1976D+02	0.2917D-04	-0.5934D-01	-0.2093D+00	0.2349D+01
za	-0.1385D+00	0.1000D+01	-0.1873D+00	0.1272D+00	-0.1328D-01	-0.2736D+01	-0.4039D-05	0.8216D-02	0.2897D-01	-0.3252D+00
ant	0.7391D+00	-0.5338D+01	0.1000D+01	-0.6791D+00	0.7088D-01	0.1461D+02	0.2156D-04	-0.4386D-01	-0.1547D+00	0.1736D+01
antl1	-0.1088D+01	0.7860D+01	-0.1473D+01	0.1000D+01	-0.1044D+00	-0.2151D+02	-0.3175D-04	0.6458D-01	0.2277D+00	-0.2556D+01
fir	0.1043D+02	-0.7531D+02	0.1411D+02	-0.9581D+01	0.1000D+01	0.2061D+03	0.3042D-03	-0.6187D+00	-0.2182D+01	0.2449D+02
fad	0.5060D-01	-0.3655D+00	0.6847D-01	-0.4650D-01	0.4853D-02	0.1000D+01	0.1476D-05	-0.3003D-02	-0.1059D-01	0.1189D+00
nc	0.3428D+05	-0.2476D+06	0.4638D+05	-0.3150D+05	0.3287D+04	0.6774D+06	0.1000D+01	-0.2034D+04	-0.7173D+04	0.8052D+05
p	-0.1685D+02	0.1217D+03	-0.2280D+02	0.1549D+02	-0.1616D+01	-0.3331D+03	-0.4916D-03	0.1000D+01	0.3527D+01	-0.3959D+02
rawem	-0.4779D+01	0.3451D+02	-0.6466D+01	0.4391D+01	-0.4583D+00	-0.9444D+02	-0.1394D-03	0.2836D+00	0.1000D+01	-0.1123D+02
tw	0.4257D+00	-0.3075D+01	0.5760D+00	-0.3912D+00	0.4083D-01	0.8413D+01	0.1242D-04	-0.2526D-01	-0.8909D-01	0.1000D+01
tt	0.1613D+01	-0.1165D+02	0.2183D+01	-0.1482D+01	0.1547D+00	0.3188D+02	0.4706D-04	-0.9572D-01	-0.3376D+00	0.3789D+01
t2t	0.1244D+01	-0.8986D+01	0.1683D+01	-0.1143D+01	0.1193D+00	0.2459D+02	0.3630D-04	-0.7383D-01	-0.2604D+00	0.2923D+01
eanfp	-0.3157D+08	0.2280D+09	-0.4272D+08	0.2901D+08	-0.3028D+07	-0.6240D+09	-0.9211D+03	0.1874D+07	0.6607D+07	-0.7417D+08
shonf	-0.1002D+06	0.7234D+06	-0.1355D+06	0.9203D+05	-0.9605D+04	-0.1979D+07	-0.2922D+01	0.5943D+04	0.2096D+05	-0.2353D+06
wd	-0.1362D+01	0.9840D+01	-0.1843D+01	0.1252D+01	-0.1307D+00	-0.2692D+02	-0.3974D-04	0.8084D-01	0.2851D+00	-0.3200D+01
sat	-0.2087D+01	0.1508D+02	-0.2824D+01	0.1918D+01	-0.2002D+00	-0.4125D+02	-0.6089D-04	0.1239D+00	0.4368D+00	-0.4903D+01
shd	-0.2032D+01	0.1468D+02	-0.2750D+01	0.1867D+01	-0.1949D+00	-0.4016D+02	-0.5929D-04	0.1206D+00	0.4253D+00	-0.4774D+01
constant	0.3716D+00	-0.2684D+01	0.5028D+00	-0.3415D+00	0.3564D-01	0.7344D+01	0.1084D-04	-0.2205D-01	-0.7777D-01	0.8729D+00
X(k)	tt	t2t	eanfp	shonf	wd	sat	shd	constant		
X(l)										

tlk	0.2515D+04	0.3261D+04	-0.1285D-03	-0.4051D-01	-0.2978D+04	-0.1944D+04	-0.1996D+04	0.1092D+05
rfk	0.1414D+01	0.1833D+01	-0.7225D-07	-0.2278D-04	-0.1674D+01	-0.1093D+01	-0.1122D+01	0.6138D+01
sfk	0.1360D+02	0.1763D+02	-0.6949D-06	-0.2191D-03	-0.1611D+02	-0.1051D+02	-0.1080D+02	0.5904D+02
csfmr	-0.3045D+02	-0.3947D+02	0.1555D-05	0.4904D-03	0.3605D+02	0.2353D+02	0.2417D+02	-0.1322D+03
rcutp	-0.3389D+05	-0.4393D+05	0.1731D-02	0.5458D+00	0.4012D+05	0.2619D+05	0.2690D+05	-0.1471D+06
ex7	-0.1775D+06	-0.2302D+06	0.9070D-02	0.2859D+01	0.2102D+06	0.1372D+06	0.1409D+06	-0.7706D+06
ex8	-0.1721D+06	-0.2231D+06	0.8791D-02	0.2771D+01	0.2037D+06	0.1330D+06	0.1366D+06	-0.7469D+06
ex9	-0.2223D+06	-0.2882D+06	0.1136D-01	0.3580D+01	0.2632D+06	0.1718D+06	0.1764D+06	-0.9649D+06
ex0	-0.2922D+06	-0.3788D+06	0.1493D-01	0.4706D+01	0.3460D+06	0.2258D+06	0.2319D+06	-0.1268D+07
ex1	-0.2852D+06	-0.3698D+06	0.1457D-01	0.4594D+01	0.3378D+06	0.2204D+06	0.2264D+06	-0.1238D+07
str	0.6199D+00	0.8037D+00	-0.3167D-07	-0.9985D-05	-0.7340D+00	-0.4791D+00	-0.4920D+00	0.2691D+01
za	-0.8583D-01	-0.1113D+00	0.4385D-08	0.1382D-05	0.1016D+00	0.6633D-01	0.6812D-01	-0.3726D+00
ant	0.4582D+00	0.5940D+00	-0.2341D-07	-0.7380D-05	-0.5425D+00	-0.3541D+00	-0.3637D+00	0.1989D+01
ant11	-0.6747D+00	-0.8747D+00	0.3447D-07	0.1087D-04	0.7989D+00	0.5214D+00	0.5355D+00	-0.2929D+01
fir	0.6464D+01	0.8381D+01	-0.3302D-06	-0.1041D-03	-0.7654D+01	-0.4996D+01	-0.5131D+01	0.2806D+02
fad	0.3137D-01	0.4067D-01	-0.1603D-08	-0.5052D-06	-0.3714D-01	-0.2424D-01	-0.2490D-01	0.1362D+00
nc	0.2125D+05	0.2755D+05	-0.1086D-02	-0.3423D+00	-0.2516D+05	-0.1642D+05	-0.1687D+05	0.9224D+05
p	-0.1045D+02	-0.1355D+02	0.5338D-06	0.1683D-03	0.1237D+02	0.8074D+01	0.8292D+01	-0.4535D+02
rawem	-0.2962D+01	-0.3841D+01	0.1514D-06	0.4771D-04	0.3508D+01	0.2289D+01	0.2351D+01	-0.1286D+02
tw	0.2639D+00	0.3422D+00	-0.1348D-07	-0.4251D-05	-0.3125D+00	-0.2040D+00	-0.2095D+00	0.1146D+01
tt	0.1000D+01	0.1297D+01	-0.5109D-07	-0.1611D-04	-0.1184D+01	-0.7728D+00	-0.7937D+00	0.4341D+01
t2t	0.7713D+00	0.1000D+01	-0.3941D-07	-0.1242D-04	-0.9133D+00	-0.5961D+00	-0.6122D+00	0.3348D+01
eanfp	-0.1957D+08	-0.2538D+08	0.1000D+01	0.3153D+03	0.2318D+08	0.1513D+08	0.1554D+08	-0.8496D+08
shonf	-0.6209D+05	-0.8050D+05	0.3172D-02	0.1000D+01	0.7352D+05	0.4798D+05	0.4928D+05	-0.2695D+06
wd	-0.8445D+00	-0.1095D+01	0.4315D-07	0.1360D-04	0.1000D+01	0.6527D+00	0.6703D+00	-0.3666D+01
sat	-0.1294D+01	-0.1678D+01	0.6611D-07	0.2084D-04	0.1532D+01	0.1000D+01	0.1027D+01	-0.5617D+01
shd	-0.1260D+01	-0.1633D+01	0.6437D-07	0.2029D-04	0.1492D+01	0.9737D+00	0.1000D+01	-0.5469D+01
constant	0.2304D+00	0.2987D+00	-0.1177D-07	-0.3711D-05	-0.2728D+00	-0.1780D+00	-0.1829D+00	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.2022502D+08	0.2022501D+08
STD.ERROR	0.2267823D+07	0.2214829D+07
SKEWNESS	0.5426857	0.4850928

E(y) at the means : 0.2022501D+08

Sig(y) at the means : 0.4861828D+06

C.o.V. at the means : 0.0240387

Gam(y) at the means : -0.0412002

Pearson-R2 : 0.9538115

Pearson-R2 bar : 0.9449669

Pseudo-(1)-R2 : 0.9538115

Pseudo-(1)-R2 bar : 0.9449669

Error Variance : 0.2361429D+12

Log-likelihood : -0.2452662D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

Variant ad_bclauh	5	500	0.1D+01	0.1D-06
0.00000D+00	0.00000D+00	0.10000D+01	0.00000D+00	0.10000D+01
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)

```

-0.2712966566D+03 0.00000D+00 0.00000D+00 0.10000D+01 0.00000D+00 0.10000D+01
new absolute minimum , parameters for fcn entry 6 follow - - f,x(i)
-0.3041106790D+03 0.37590D+00 0.51338D+00 0.92493D+00 0.15505D-01 0.10000D+01
new absolute minimum , parameters for fcn entry 10 follow - - f,x(i)
-0.3071875651D+03 0.16262D+00 0.75732D+00 0.99170D+00 0.10835D+00 0.10011D+01
new absolute minimum , parameters for fcn entry 12 follow - - f,x(i)
-0.3072283139D+03 0.17031D+00 0.75929D+00 0.10213D+01 0.11985D+00 0.99988D+00
new absolute minimum , parameters for fcn entry 15 follow - - f,x(i)
-0.3073868108D+03 0.18505D+00 0.77385D+00 0.10030D+01 0.21821D+00 0.98345D+00
new absolute minimum , parameters for fcn entry 18 follow - - f,x(i)
-0.3079947683D+03 0.16154D+00 0.94602D+00 0.98094D+00 0.14495D+00 0.79110D+00
new absolute minimum , parameters for fcn entry 23 follow - - f,x(i)
-0.3085406315D+03 0.40185D-01 0.11666D+01 0.97915D+00 0.14945D+00 0.77962D+00
new absolute minimum , parameters for fcn entry 26 follow - - f,x(i)
-0.3087291191D+03 0.16359D-02 0.12805D+01 0.96781D+00 0.20727D+00 0.64758D+00
new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
-0.3096524740D+03 0.11084D-01 0.15198D+01 0.89335D+00 0.64354D+00 -0.26057D+00
new absolute minimum , parameters for fcn entry 33 follow - - f,x(i)
-0.3097276583D+03 0.92787D-02 0.15653D+01 0.92505D+00 0.67236D+00 -0.21092D+00
new absolute minimum , parameters for fcn entry 35 follow - - f,x(i)
-0.3097379224D+03 0.10163D-01 0.15870D+01 0.91831D+00 0.67119D+00 -0.11687D+00
new absolute minimum , parameters for fcn entry 37 follow - - f,x(i)
-0.3097399484D+03 0.77496D-02 0.15966D+01 0.91588D+00 0.66217D+00 -0.93112D-01
new absolute minimum , parameters for fcn entry 41 follow - - f,x(i)
-0.3097546492D+03 0.84275D-02 0.16020D+01 0.91479D+00 0.52356D+00 0.13161D+00
new absolute minimum , parameters for fcn entry 43 follow - - f,x(i)
-0.3097555561D+03 0.88119D-02 0.16048D+01 0.91680D+00 0.51136D+00 0.18554D+00
new absolute minimum , parameters for fcn entry 45 follow - - f,x(i)
-0.3097555699D+03 0.87343D-02 0.16042D+01 0.91665D+00 0.51048D+00 0.19001D+00
new absolute minimum , parameters for fcn entry 47 follow - - f,x(i)
-0.3097555702D+03 0.87479D-02 0.16040D+01 0.91666D+00 0.51014D+00 0.19046D+00
new absolute minimum , parameters for fcn entry 48 follow - - f,x(i)
-0.3097555702D+03 0.87522D-02 0.16040D+01 0.91667D+00 0.51025D+00 0.19024D+00
new absolute minimum , parameters for fcn entry 49 follow - - f,x(i)
-0.3097555702D+03 0.87519D-02 0.16040D+01 0.91667D+00 0.51024D+00 0.19026D+00
new absolute minimum , parameters for fcn entry 50 follow - - f,x(i)
-0.3097555702D+03 0.87518D-02 0.16040D+01 0.91667D+00 0.51024D+00 0.19026D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - -
therefore the run has been terminated
-0.3097555702D+03 0.87518D-02 0.16040D+01 0.91667D+00 0.51024D+00 0.19026D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3097555702D+03 for entry 50 - - x(i) follows
0.87518D-02 0.16040D+01 0.91667D+00 0.51024D+00 0.19026D+00

run statistics follow - -
nfcn= 50 nst= 18

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

OBSERVED Y FITTED E(Y)
MEAN 0.2022502D+08 0.2022699D+08
STD.ERROR 0.2267823D+07 0.2278597D+07
SKEWNESS 0.5426857 0.5808204

E(y) at the means : 0.2022642D+08
Sig(y) at the means : 0.3914689D+06
C.o.V. at the means : 0.0193543
Gam(y) at the means : -0.0741641
Pearson-R2 : 0.9709267
Pearson-R2 bar : 0.9640859
Pseudo-(1)-R2 : 0.9793514
Pseudo-(1)-R2 bar : 0.9744930

```

Error Variance : 0.5659259D+09
 Log-likelihood : -0.2414203D+04

FINAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)	SIGMA(y)	y(sample)	E(y)	SIGMA(y)
								GAMMA(y)			GAMMA(y)	
							-first obs	13		-first obs	170	
							-last obs	181		-last obs	181	
1 tlk	NL	0	-0.4539007D+02	-0.4458978D-14	0.2148140D+03	-0.2113	-0.0018	-0.0018	-0.0019	-0.0019	-0.0019	-0.0019
					0.1914239D+03	-0.2371		-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
								-0.0053	-0.0053	-0.0053	-0.0053	-0.0053
2 rfk	NL	0	-0.5558211D+05	-0.8131088D-17	0.1198053D+06	-0.4639	-0.0080	-0.0080	-0.0065	-0.0065	-0.0065	-0.0065
					0.1892552D+05	-2.9369		-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
								-0.0238	-0.0238	-0.0238	-0.0238	-0.0238
3 sfk	NL	0	-0.1045879D+03	-0.1392499D-15	0.3019362D+04	-0.0346	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
					0.2941531D+04	-0.0356		0.0000	0.0000	0.0000	0.0000	0.0000
								-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
4 csfmr	NL	0	0.5001789D+03	-0.9395220D-15	0.1193076D+04	0.4192	0.0025	0.0025	0.0038	0.0038	0.0038	0.0038
					0.6467519D+03	0.7734		0.0002	0.0002	0.0002	0.0002	0.0002
								0.0075	0.0075	0.0075	0.0075	0.0075
5 rcutp	NL	0	-0.4741714D+01	-0.1183459D-11	0.9555818D+01	-0.4962	-0.0224	-0.0224	-0.0430	-0.0430	-0.0430	-0.0430
					0.2773147D+01	-1.7099		-0.0019	-0.0019	-0.0019	-0.0019	-0.0019
								-0.0669	-0.0669	-0.0669	-0.0669	-0.0669
6 ex7	NL	0	0.6680480D+00	0.8570922D-11	0.1432996D+01	0.4662	0.0145	0.0145	0.0000	0.0000	0.0000	0.0000
					0.2024389D-01	33.0000		0.0012	0.0012	0.0012	0.0012	0.0012
								0.0434	0.0434	0.0434	0.0434	0.0434
7 ex8	NL	0	0.6283459D+00	-0.2388978D-11	0.1361882D+01	0.4614	0.0031	0.0031	0.0000	0.0000	0.0000	0.0000
					0.1137639D+00	5.5232		0.0003	0.0003	0.0003	0.0003	0.0003
								0.0092	0.0092	0.0092	0.0092	0.0092
8 ex9	NL	0	0.4154582D+00	-0.2006395D-11	0.9406639D+00	0.4417	0.0012	0.0012	0.0000	0.0000	0.0000	0.0000
					0.1800273D+00	2.3078		0.0001	0.0001	0.0001	0.0001	0.0001
								0.0035	0.0035	0.0035	0.0035	0.0035
9 ex0	NL	0	0.7008806D-01	0.1059153D-11	0.3389187D+00	0.2068	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000
					0.2657731D+00	0.2637		0.0000	0.0000	0.0000	0.0000	0.0000
								0.0005	0.0005	0.0005	0.0005	0.0005
10 ex1	NL	0	0.5043136D-02	-0.4043121D-11	0.4256044D+00	0.0118	0.0000	0.0000	0.0002	0.0002	0.0002	0.0002
					0.4195486D+00	0.0120		0.0000	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000	0.0000	0.0000	0.0000
11 str	NL	0	-0.1827768D+06	-0.5421011D-18	0.3834860D+06	-0.4766	-0.0096	-0.0096	0.0000	0.0000	0.0000	0.0000
					0.3676048D+04	-49.7210		-0.0008	-0.0008	-0.0008	-0.0008	-0.0008
								-0.0285	-0.0285	-0.0285	-0.0285	-0.0285
12 za	NL	0	0.2239440D+07	0.5696297D-19	0.4828197D+07	0.4638	0.0210	0.0210	0.0000	0.0000	0.0000	0.0000
					0.4784591D+06	4.6805		0.0018	0.0018	0.0018	0.0018	0.0018
								0.0627	0.0627	0.0627	0.0627	0.0627
13 ant	NL	0	-0.2022660D+06	0.8978549D-19	0.4359088D+06	-0.4640	-0.0002	-0.0002	0.0000	0.0000	0.0000	0.0000
					0.7169708D+05	-2.8211		0.0000	0.0000	0.0000	0.0000	0.0000
								-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
14 antl1	NL	0	0.6289825D+05	-0.3354250D-18	0.1314829D+06	0.4784	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
					0.4763069D+05	1.3205		0.0000	0.0000	0.0000	0.0000	0.0000
								0.0002	0.0002	0.0002	0.0002	0.0002
15 fir	NL	0	-0.7692240D+04	-0.2162865D-16	0.5001506D+17	0.0000	-0.0002	-0.0002	-0.0030	-0.0030	-0.0030	-0.0030
					0.4748335D+17	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
								-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
16 fad	EL	1	-0.4977271D+07	0.1539605D-16	0.1171016D+08	-0.4250	-0.1930	-0.1930	-0.2648	-0.2648	-0.2648	-0.2648
					0.6713430D+06	-7.4139		-0.0164	-0.0164	-0.0164	-0.0164	-0.0164
								-0.5764	-0.5764	-0.5764	-0.5764	-0.5764
17 nc	EL	1	-0.1791128D+02	-0.4513189D-11	0.1100811D+02	-1.6271	-0.3933	-0.3933	-0.5935	-0.5935	-0.5935	-0.5935
					0.5229900D+01	-3.4248		-0.0333	-0.0333	-0.0333	-0.0333	-0.0333
								-1.1746	-1.1746	-1.1746	-1.1746	-1.1746
18 p	EL	1	0.5937564D+04	-0.2612312D-14	0.1666374D+05	0.3563	0.1111	0.1111	0.1346	0.1346	0.1346	0.1346
					0.1270796D+05	0.4672		0.0094	0.0094	0.0094	0.0094	0.0094
								0.3317	0.3317	0.3317	0.3317	0.3317
19 rawem	EL	1	0.5182651D+05	-0.1759266D-14	0.8445514D+05	0.6137	0.5760	0.5759	0.7484	0.7484	0.7484	0.7484
					0.1494226D+05	3.4685		0.0488	0.0488	0.0488	0.0488	0.0488
								1.7200	1.7200	1.7200	1.7200	1.7200
20 tw	EL	1	-0.1770861D+05	-0.1036047D-15	0.1007344D+06	-0.1758	-0.0127	-0.0127	-0.0160	-0.0160	-0.0160	-0.0160
					0.8658057D+05	-0.2045		-0.0011	-0.0011	-0.0011	-0.0011	-0.0011
								-0.0380	-0.0380	-0.0380	-0.0380	-0.0380
21 tt	EL	1	-0.1459187D+06	-0.2759906D-15	0.2529820D+06	-0.5768	-0.4859	-0.4859	-0.4623	-0.4623	-0.4623	-0.4623
					0.9803844D+04	-14.8838		-0.0412	-0.0412	-0.0412	-0.0412	-0.0412
								-1.4511	-1.4511	-1.4511	-1.4511	-1.4511
22 t2t	EL	1	0.7702501D+05	-0.1766621D-15	0.1512154D+06	0.5094	0.1273	0.1273	0.1553	0.1553	0.1553	0.1553
					0.6885836D+05	1.1186		0.0108	0.0108	0.0108	0.0108	0.0108
								0.3801	0.3801	0.3801	0.3801	0.3801
23 eanfp	EL	1	0.7348381D-01	-0.4695844D-09	0.2147659D-01	3.4216	0.3859	0.3858	0.3828	0.3828	0.3828	0.3828
					0.1329032D-01	5.5291		0.0327	0.0327	0.0327	0.0327	0.0327
								1.1523	1.1523	1.1523	1.1523	1.1523
24 shonf	EL	1	0.4097703D+01	-0.1688090D-11	0.3771000D+01	1.0866	0.0442	0.0442	0.0628	0.0628	0.0628	0.0628
					0.2989484D+01	1.3707		0.2978	0.2978	0.2978	0.2978	0.2978
								210108.3073	210108.3073	210108.3073	210108.3073	210108.3073
25 wd	EL	1	0.2478792D+06	-0.3231788D-15	0.4345862D+06	0.5704	0.8050	0.8050	0.8497	0.8497	0.8497	0.8497
					0.4803976D+05	5.1599		0.0682	0.0682	0.0682	0.0682	0.0682
								2.4040	2.4040	2.4040	2.4040	2.4040
26 sat	EL	1	0.1593119D+06	-0.5323756D-16	0.3073620D+06	0.5183	0.1230	0.1230	0.1295	0.1295	0.1295	0.1295
					0.4623964D+05	3.4454		0.0104	0.0104	0.0104	0.0104	0.0104
								0.3672	0.3672	0.3672	0.3672	0.3672
27 shd	EL	1	0.1267994D+06	-0.1037581D-15	0.2502685D+06	0.5067	0.1169	0.1169	0.1229	0.1229	0.1229	0.1229
					0.4628311D+05	2.7396		0.0099	0.0099	0.0099	0.0099	0.0099
								0.3491	0.3491	0.3491	0.3491	0.3491
28 constant	NL	0	-0.5773476D+07	-0.1978909D-16	0.1327949D+08	-0.4348	-1.1597	-1.1596	-1.2235	-1.2235	-1.2235	-1.2235
					0.2306783D+07	-2.5028		-0.0983	-0.0983	-0.0983	-0.0983	-0.0983
								-3.4631	-3.4631	-3.4631	-3.4631	-3.4631
Autocorrelation												
29 rho 1			0.8751626D-02	-0.1295680D-05	0.4263140D-01	0.2053						

```

                                0.4166916D-01      0.2100
30 rho 12                      0.9222617D+00  0.1518395D-05  0.4261610D-01  21.6412
                                0.4233524D-01  21.7847

Box-cox on (x)

31 lambda(x) 1 = lambda(y) 0.9166710D+00  0.3519792D-07  0.1261628D+00  7.2658
                                -0.6605

Heteroskedasticity

32 delta 1                    0.5707750D-01 -0.1762376D-05  0.2483924D+01  0.0230      0.0442      0.0442      0.0628      0.0610
                                0.5099406D-01  1.1193      0.2978      0.3087
33 lambda(z) 1                0.1902618D+00 -0.1187860D-05  0.3560134D+01  0.0534      0.2101D+06      0.1948D+06
                                -0.2274

Residual (w)

34 error variance              0.5659259D+09  0.9357481D-22  0.2215652D+11  0.0255
                                0.1407228D+10  0.4022

```

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	-0.1843967D+03	-0.1843950D+03	-0.3024841D+00	0.2019202D-05
2 rfk	-0.2258018D+06	-0.2257997D+06	-0.3704049D+03	0.2472600D-02
3 sfk	-0.4248871D+03	-0.4248833D+03	-0.6969843D+00	0.4652648D-05
4 csfmr	0.2031972D+04	0.2031953D+04	0.3333244D+01	-0.2225073D-04
5 rcutp	-0.1926317D+02	-0.1926299D+02	-0.3159928D-01	0.2109378D-06
6 ex7	0.2713938D+01	0.2713914D+01	0.4451941D-02	-0.2971848D-07
7 ex8	0.2552649D+01	0.2552626D+01	0.4187362D-02	-0.2795231D-07
8 ex9	0.1687795D+01	0.1687780D+01	0.2768657D-02	-0.1848189D-07
9 ex0	0.2847321D+00	0.2847295D+00	0.4670741D-03	-0.3117906D-08
10 ex1	0.2048769D-01	0.2048750D-01	0.3360798D-04	-0.2243466D-09
11 str	-0.7425290D+06	-0.7425223D+06	-0.1218044D+04	0.8130926D-02
12 za	0.9097701D+07	0.9097619D+07	0.1492386D+05	-0.9962269D-01
13 ant	-0.8217038D+06	-0.8216963D+06	-0.1347922D+04	0.8997915D-02
14 ant11	0.2555235D+06	0.2555212D+06	0.4191604D+03	-0.2798063D-02
15 fir	-0.3124965D+05	-0.3124937D+05	-0.5126188D+02	0.3421935D-03
16 fad	-0.2348101D+08	-0.2348080D+08	-0.3851822D+05	0.2571244D+00
17 nc	-0.2534411D+02	-0.2534388D+02	-0.4157444D-01	0.2775260D-06
18 p	0.1597359D+05	0.1597345D+05	0.2620306D+02	-0.1749159D-03
19 rawem	0.1461851D+06	0.1461838D+06	0.2398019D+03	-0.1600773D-02
20 tw	-0.6407236D+05	-0.6407178D+05	-0.1051042D+03	0.7016125D-03
21 tt	-0.4592409D+06	-0.4592368D+06	-0.7533382D+03	0.5028833D-02
22 t2t	0.2583620D+06	0.2583596D+06	0.4238166D+03	-0.2829145D-02
23 eanfp	0.6320007D-01	0.6319950D-01	0.1036733D-03	-0.6920606D-09
24 shonf	0.4197205D+01	0.4199557D+01	0.5478122D+00	-0.7321405D-01
25 wd	0.7819167D+06	0.7819096D+06	0.1282655D+04	-0.8562234D-02
26 sat	0.5726542D+06	0.5726490D+06	0.9393811D+03	-0.6270743D-02
27 shd	0.4484839D+06	0.4484798D+06	0.7356923D+03	-0.4911039D-02
28 constant	-0.2345469D+08	-0.2345448D+08	-0.3847504D+05	0.2568362D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

```

=====
row / col   E(y)      SIGMA(y)    GAMMA(y)
=====
E(y)       0.1000D+01  0.6096D+03 -0.9132D+08

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SIGMA(y) 0.1640D-02 0.1000D+01 -0.1498D+06
 GAMMA(y) -0.1095D-07 -0.6675D-05 0.1000D+01

Elasticity of substitution between two moments
 (E(y), SIGMA(y), GAMMA(y)) at the sample means
 =====

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1180D+02	0.3348D+00
SIGMA(y)	0.8476D-01	0.1000D+01	0.2838D-01
GAMMA(y)	0.2986D+01	0.3524D+02	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means
 =====

X(l)	X(k)	tlk	rflk	sflk	csfmr	rcutp	ex7	ex8	ex9	ex0	ex1
tlk		0.1000D+01	0.1225D+04	0.2304D+01	-0.1102D+02	0.1045D+00	-0.1472D-01	-0.1384D-01	-0.9153D-02	-0.1544D-02	-0.1111D-03
rflk		0.8166D-03	0.1000D+01	0.1882D-02	-0.8999D-02	0.8531D-04	-0.1202D-04	-0.1130D-04	-0.7475D-05	-0.1261D-05	-0.9073D-07
sflk		0.4340D+00	0.5314D+03	0.1000D+01	-0.4782D+01	0.4534D-01	-0.6387D-02	-0.6008D-02	-0.3972D-02	-0.6701D-03	-0.4822D-04
csfmr		-0.9075D-01	-0.1111D+03	-0.2091D+00	0.1000D+01	-0.9480D-02	0.1336D-02	0.1256D-02	0.8306D-03	0.1401D-03	0.1008D-04
rcutp		0.9573D+01	0.1172D+05	0.2206D+02	-0.1055D+03	0.1000D+01	-0.1409D+00	-0.1325D+00	-0.8762D-01	-0.1478D-01	-0.1064D-02
ex7		-0.6794D+02	-0.8320D+05	-0.1566D+03	0.7487D+03	-0.7098D+01	0.1000D+01	0.9406D+00	0.6219D+00	0.1049D+00	0.7549D-02
ex8		-0.7224D+02	-0.8846D+05	-0.1664D+03	0.7960D+03	-0.7546D+01	0.1063D+01	0.1000D+01	0.6612D+00	0.1115D+00	0.8026D-02
ex9		-0.1093D+03	-0.1338D+06	-0.2517D+03	0.1204D+04	-0.1141D+02	0.1608D+01	0.1512D+01	0.1000D+01	0.1687D+00	0.1214D-01
ex0		-0.6476D+03	-0.7930D+06	-0.1492D+04	0.7136D+04	-0.6765D+02	0.9532D+01	0.8965D+01	0.5928D+01	0.1000D+01	0.7195D-01
ex1		-0.9000D+04	-0.1102D+08	-0.2074D+05	0.9918D+05	-0.9402D+03	0.1325D+03	0.1246D+03	0.8238D+02	0.1390D+02	0.1000D+01
str		0.2483D-03	0.3041D+00	0.5722D-03	-0.2737D-02	0.2594D-04	-0.3655D-05	-0.3438D-05	-0.2273D-05	-0.3835D-06	-0.2759D-07
za		-0.2027D-04	-0.2482D-01	-0.4670D-04	0.2234D-03	-0.2117D-05	0.2983D-06	0.2806D-06	0.1855D-06	0.3130D-07	0.2252D-08
ant		0.2244D-03	0.2748D+00	0.5171D-03	-0.2473D-02	0.2344D-04	-0.3303D-05	-0.3107D-05	-0.2054D-05	-0.3465D-06	-0.2493D-07
antl1		-0.7216D-03	-0.8837D+00	-0.1663D-02	0.7952D-02	-0.7539D-04	0.1062D-04	0.9990D-05	0.6605D-05	0.1114D-05	0.8018D-07
fir		0.5901D-02	0.7226D+01	0.1360D-01	-0.6502D-01	0.6164D-03	-0.8685D-04	-0.8169D-04	-0.5401D-04	-0.9112D-05	-0.6556D-06
fad		0.7853D-05	0.9616D-02	0.1809D-04	-0.8654D-04	0.8204D-06	-0.1156D-06	-0.1087D-06	-0.7188D-07	-0.1213D-07	-0.8725D-09
nc		0.7276D+01	0.8909D+04	0.1676D+02	-0.8018D+02	0.7601D+00	-0.1071D+00	-0.1007D+00	-0.6660D-01	-0.1123D-01	-0.8084D-03
p		-0.1154D-01	-0.1414D+02	-0.2660D-01	0.1272D+00	-0.1206D-02	0.1699D-03	0.1598D-03	0.1057D-03	0.1783D-04	0.1283D-05
rawem		-0.1261D-02	-0.1545D+01	-0.2907D-02	0.1390D-01	-0.1318D-03	0.1857D-04	0.1746D-04	0.1155D-04	0.1948D-05	0.1401D-06
tw		0.2878D-02	0.3524D+01	0.6631D-02	-0.3171D-01	0.3006D-03	-0.4236D-04	-0.3984D-04	-0.2634D-04	-0.4444D-05	-0.3198D-06
tt		0.4015D-03	0.4917D+00	0.9252D-03	-0.4425D-02	0.4195D-04	-0.5910D-05	-0.5558D-05	-0.3675D-05	-0.6200D-06	-0.4461D-07
t2t		-0.7137D-03	-0.8740D+00	-0.1645D-02	0.7865D-02	-0.7456D-04	0.1050D-04	0.9880D-05	0.6533D-05	0.1102D-05	0.7930D-07
eanfp		-0.2918D+04	-0.3573D+07	-0.6723D+04	0.3215D+05	-0.3048D+03	0.4294D+02	0.4039D+02	0.2671D+02	0.4505D+01	0.3242D+00
shonf		-0.4391D+02	-0.5377D+05	-0.1012D+03	0.4838D+03	-0.4587D+01	0.6462D+00	0.6078D+00	0.4019D+00	0.6780D-01	0.4878D-02
wd		-0.2358D-03	-0.2888D+00	-0.5434D-03	0.2599D-02	-0.2464D-04	0.3471D-05	0.3265D-05	0.2159D-05	0.3641D-06	0.2620D-07
sat		-0.3220D-03	-0.3943D+00	-0.7420D-03	0.3548D-02	-0.3364D-04	0.4739D-05	0.4458D-05	0.2947D-05	0.4972D-06	0.3578D-07
shd		-0.4112D-03	-0.5035D+00	-0.9474D-03	0.4531D-02	-0.4295D-04	0.6051D-05	0.5692D-05	0.3763D-05	0.6349D-06	0.4568D-07
constant		0.7862D-05	0.9627D-02	0.1812D-04	-0.8663D-04	0.8213D-06	-0.1157D-06	-0.1088D-06	-0.7196D-07	-0.1214D-07	-0.8735D-09
X(l)	X(k)	str	za	ant	antl1	fir	fad	nc	p	rawem	tw
tlk		0.4027D+04	-0.4934D+05	0.4456D+04	-0.1386D+04	0.1695D+03	0.1273D+06	0.1374D+00	-0.8663D+02	-0.7928D+03	0.3475D+03
rflk		0.3288D+01	-0.4029D+02	0.3639D+01	-0.1132D+01	0.1384D+00	0.1040D+03	0.1122D-03	-0.7074D-01	-0.6474D+00	0.2838D+00
sflk		0.1748D+04	-0.2141D+05	0.1934D+04	-0.6014D+03	0.7355D+02	0.5526D+05	0.5965D-01	-0.3759D+02	-0.3441D+03	0.1508D+03
csfmr		-0.3654D+03	0.4477D+04	-0.4044D+03	0.1258D+03	-0.1538D+02	-0.1156D+05	-0.1247D-01	0.7861D+01	0.7194D+02	-0.3153D+02
rcutp		0.3855D+05	-0.4723D+06	0.4266D+05	-0.1326D+05	0.1622D+04	0.1219D+07	0.1316D+01	-0.8292D+03	-0.7589D+04	0.3326D+04
ex7		-0.2736D+06	0.3352D+07	-0.3028D+06	0.9415D+05	-0.1151D+05	-0.8652D+07	-0.9338D+01	0.5886D+04	0.5386D+05	-0.2361D+05
ex8		-0.2909D+06	0.3564D+07	-0.3219D+06	0.1001D+06	-0.1224D+05	-0.9199D+07	-0.9929D+01	0.6258D+04	0.5727D+05	-0.2510D+05

ex9	-0.4399D+06	0.5390D+07	-0.4869D+06	0.1514D+06	-0.1852D+05	-0.1391D+08	-0.1502D+02	0.9464D+04	0.8661D+05	-0.3796D+05		
ex0	-0.2608D+07	0.3195D+08	-0.2886D+07	0.8974D+06	-0.1098D+06	-0.8247D+08	-0.8901D+02	0.5610D+05	0.5134D+06	-0.2250D+06		
ex1	-0.3624D+08	0.4441D+09	-0.4011D+08	0.1247D+08	-0.1525D+07	-0.1146D+10	-0.1237D+04	0.7797D+06	0.7135D+07	-0.3127D+07		
str	0.1000D+01	-0.1225D+02	0.1107D+01	-0.3441D+00	0.4209D-01	0.3162D+02	0.3413D-04	-0.2151D-01	-0.1969D+00	0.8629D-01		
za	-0.8162D-01	0.1000D+01	-0.9032D-01	0.2809D-01	-0.3435D-02	-0.2581D+01	-0.2786D-05	0.1756D-02	0.1607D-01	-0.7043D-02		
ant	0.9036D+00	-0.1107D+02	0.1000D+01	-0.3110D+00	0.3803D-01	0.2858D+02	0.3084D-04	-0.1944D-01	-0.1779D+00	0.7798D-01		
ant11	-0.2906D+01	0.3560D+02	-0.3216D+01	0.1000D+01	-0.1223D+00	-0.9189D+02	-0.9919D-04	0.6251D-01	0.5721D+00	-0.2507D+00		
fir	0.2376D+02	-0.2911D+03	0.2629D+02	-0.8177D+01	0.1000D+01	0.7514D+03	0.8110D-03	-0.5112D+00	-0.4678D+01	0.2050D+01		
fad	0.3162D-01	-0.3874D+00	0.3499D-01	-0.1088D-01	0.1331D-02	0.1000D+01	0.1079D-05	-0.6803D-03	-0.6226D-02	0.2729D-02		
nc	0.2930D+05	-0.3590D+06	0.3242D+05	-0.1008D+05	0.1233D+04	0.9265D+06	0.1000D+01	-0.6303D+03	-0.5768D+04	0.2528D+04		
p	-0.4648D+02	0.5695D+03	-0.5144D+02	0.1600D+02	-0.1956D+01	-0.1470D+04	-0.1587D-02	0.1000D+01	0.9152D+01	-0.4011D+01		
rawem	-0.5079D+01	0.6223D+02	-0.5621D+01	0.1748D+01	-0.2138D+00	-0.1606D+03	-0.1734D-03	0.1093D+00	0.1000D+01	-0.4383D+00		
tw	0.1159D+02	-0.1420D+03	0.1282D+02	-0.3988D+01	0.4877D+00	0.3665D+03	0.3956D-03	-0.2493D+00	-0.2282D+01	0.1000D+01		
tt	0.1617D+01	-0.1981D+02	0.1789D+01	-0.5564D+00	0.6805D-01	0.5113D+02	0.5519D-04	-0.3478D-01	-0.3183D+00	0.1395D+00		
t2t	-0.2874D+01	0.3521D+02	-0.3180D+01	0.9890D+00	-0.1210D+00	-0.9088D+02	-0.9810D-04	0.6183D-01	0.5658D+00	-0.2480D+00		
eanfp	-0.1175D+08	0.1440D+09	-0.1300D+08	0.4043D+07	-0.4945D+06	-0.3715D+09	-0.4010D+03	0.2527D+06	0.2313D+07	-0.1014D+07		
shonf	-0.1768D+06	0.2166D+07	-0.1957D+06	0.6084D+05	-0.7441D+04	-0.5591D+07	-0.6035D+01	0.3804D+04	0.3481D+05	-0.1526D+05		
wd	-0.9496D+00	0.1164D+02	-0.1051D+01	0.3268D+00	-0.3997D-01	-0.3003D+02	-0.3241D-04	0.2043D-01	0.1870D+00	-0.8194D-01		
sat	-0.1297D+01	0.1589D+02	-0.1435D+01	0.4462D+00	-0.5457D-01	-0.4100D+02	-0.4426D-04	0.2789D-01	0.2553D+00	-0.1119D+00		
shd	-0.1656D+01	0.2029D+02	-0.1832D+01	0.5697D+00	-0.6968D-01	-0.5236D+02	-0.5651D-04	0.3562D-01	0.3260D+00	-0.1429D+00		
constant	0.3166D-01	-0.3879D+00	0.3503D-01	-0.1089D-01	0.1332D-02	0.1001D+01	0.1081D-05	-0.6810D-03	-0.6233D-02	0.2732D-02		
=====												
X(k)	tt	t2t	eanfp	shonf	wd	sat	shd	constant				
=====												
X(1)												
=====												
tlk	0.2491D+04	-0.1401D+04	-0.3427D-03	-0.2277D-01	-0.4240D+04	-0.3106D+04	-0.2432D+04	0.1272D+06				
rfl	0.2034D+01	-0.1144D+01	-0.2799D-06	-0.1860D-04	-0.3463D+01	-0.2536D+01	-0.1986D+01	0.1039D+03				
sfl	0.1081D+04	-0.6081D+03	-0.1487D-03	-0.9884D-02	-0.1840D+04	-0.1348D+04	-0.1056D+04	0.5520D+05				
csfmr	-0.2260D+03	0.1271D+03	0.3110D-04	0.2067D-02	0.3848D+03	0.2818D+03	0.2207D+03	-0.1154D+05				
rcutp	0.2384D+05	-0.1341D+05	-0.3281D-02	-0.2180D+00	-0.4059D+05	-0.2973D+05	-0.2328D+05	0.1218D+07				
ex7	-0.1692D+06	0.9520D+05	0.2329D-01	0.1547D+01	0.2881D+06	0.2110D+06	0.1653D+06	-0.8642D+07				
ex8	-0.1799D+06	0.1012D+06	0.2476D-01	0.1645D+01	0.3063D+06	0.2243D+06	0.1757D+06	-0.9188D+07				
ex9	-0.2721D+06	0.1531D+06	0.3745D-01	0.2488D+01	0.4633D+06	0.3393D+06	0.2657D+06	-0.1390D+08				
ex0	-0.1613D+07	0.9074D+06	0.2220D+00	0.1475D+02	0.2746D+07	0.2011D+07	0.1575D+07	-0.8237D+08				
ex1	-0.2242D+08	0.1261D+08	0.3085D+01	0.2050D+03	0.3817D+08	0.2795D+08	0.2189D+08	-0.1145D+10				
str	0.6185D+00	-0.3479D+00	-0.8511D-07	-0.5656D-05	-0.1053D+01	-0.7712D+00	-0.6040D+00	0.3159D+02				
za	-0.5048D-01	0.2840D-01	0.6947D-08	0.4616D-06	0.8595D-01	0.6294D-01	0.4930D-01	-0.2578D+01				
ant	0.5589D+00	-0.3144D+00	-0.7691D-07	-0.5111D-05	-0.9516D+00	-0.6969D+00	-0.5458D+00	0.2854D+02				
ant11	-0.1797D+01	0.1011D+01	0.2473D-06	0.1644D-04	0.3060D+01	0.2241D+01	0.1755D+01	-0.9179D+02				
fir	0.1470D+02	-0.8268D+01	-0.2022D-05	-0.1344D-03	-0.2502D+02	-0.1833D+02	-0.1435D+02	0.7506D+03				
fad	0.1956D-01	-0.1100D-01	-0.2692D-08	-0.1789D-06	-0.3330D-01	-0.2439D-01	-0.1910D-01	0.9989D+00				
nc	0.1812D+05	-0.1019D+05	-0.2494D-02	-0.1657D+00	-0.3085D+05	-0.2260D+05	-0.1770D+05	0.9254D+06				
p	-0.2875D+02	0.1617D+02	0.3957D-05	0.2629D-03	0.4895D+02	0.3585D+02	0.2808D+02	-0.1468D+04				
rawem	-0.3142D+01	0.1767D+01	0.4323D-06	0.2873D-04	0.5349D+01	0.3917D+01	0.3068D+01	-0.1604D+03				
tw	0.7168D+01	-0.4032D+01	-0.9864D-06	-0.6554D-04	-0.1220D+02	-0.8938D+01	-0.7000D+01	0.3661D+03				
tt	0.1000D+01	-0.5626D+00	-0.1376D-06	-0.9145D-05	-0.1703D+01	-0.1247D+01	-0.9766D+00	0.5107D+02				
t2t	-0.1778D+01	0.1000D+01	0.2446D-06	0.1625D-04	0.3026D+01	0.2216D+01	0.1736D+01	-0.9078D+02				
eanfp	-0.7266D+07	0.4088D+07	0.1000D+01	0.6645D+02	0.1237D+08	0.9061D+07	0.7096D+07	-0.3711D+09				
shonf	-0.1094D+06	0.6152D+05	0.1505D-01	0.1000D+01	0.1862D+06	0.1364D+06	0.1068D+06	-0.5585D+07				
wd	-0.5873D+00	0.3304D+00	0.8083D-07	0.5371D-05	0.1000D+01	0.7324D+00	0.5736D+00	-0.3000D+02				
sat	-0.8020D+00	0.4512D+00	0.1104D-06	0.7334D-05	0.1365D+01	0.1000D+01	0.7832D+00	-0.4096D+02				
shd	-0.1024D+01	0.5761D+00	0.1409D-06	0.9364D-05	0.1743D+01	0.1277D+01	0.1000D+01	-0.5230D+02				

constant 0.1958D-01 -0.1102D-01 -0.2695D-08 -0.1791D-06 -0.3334D-01 -0.2442D-01 -0.1912D-01 0.1000D+01

Log-likelihood

- initial value : -2452.6615
- final value : -2414.2026
- ratio test : 76.9178

Pearson-r2 : 0.9709

Pearson-r2 bar : 0.9641

Pseudo-(1)-r2 : 0.9794

Pseudo-(1)-r2 bar : 0.9745

Std-error of (w) : 23789.1969

Number of observations first-last obs.no.

- sample : 181 1 - 181
- estimation : 169 13 - 181

CPU TIME: 0.47 sec

Output file 6: ad_bc2auhg.txt

```
&CARD1
NOBS =        181,
NC =         13,
NF =        181,
NFP =        181,
NOBEL =       12,
NM =         0,
NSTEP =       500,
EPSI = 1.000000000000000E-007,
WGHT = 1.000000000000000
/
&CARD2
NB =         29,
NRO =         2,
NSL =        15,
NGF =         0,
MAXF =         0,
NGV =         1,
MAXV =        14,
NLY =         1,
NDM =         1,
NLE =         1,
ND =         1
/
&CARD3
NCOR =         0,
NRES =         0,
NPW =         0,
NGUVW =        0,
NPDQL =        0,
NCOV =         0,
NEY =         0,
VARNAME = a_bc2auhg,
NVARIANT =       6
/
```

Working space used : 15497 out of 500000

autocorrelation of orders: 1 12
rho initial values: 0.000000000000000E+000 0.000000000000000E+000

group (x) without box-cox transformation
variable no.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

group 1 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
16 17 18 19 20 21 22 23 24 25 26 27 28 29

lambda(y) initial value: 1.000000000000000
upper limit for y 0.000000000000000E+000

Heteroscedasticity

variables: shonf
delta initial values: 0.00000000000000E+000
lambda(z) initial values: 1.00000000000000

no.	variable	minimum	mean	maximum	null obs.
	xcanfa	0.94771D+07	0.20334D+08	0.31106D+08	0
1	tlk	0.00000D+00	0.19354D+03	0.53000D+03	1
2	dumrfk	0.00000D+00	0.98895D+00	0.10000D+01	2
3	sfk	0.00000D+00	0.26059D+01	0.17965D+02	85
4	csfmr	0.00000D+00	0.24434D+02	0.14760D+03	86
5	rcutp	0.00000D+00	0.22657D+05	0.70227D+05	9
6	dumex7	0.00000D+00	0.38674D-01	0.10000D+01	174
7	ex8	0.00000D+00	0.22760D+05	0.10608D+07	175
8	ex9	0.00000D+00	0.13137D+05	0.88493D+06	177
9	ex0	0.00000D+00	0.11371D+05	0.68509D+06	177
10	ex1	0.00000D+00	0.10163D+05	0.67270D+06	177
11	str	0.00000D+00	0.24309D+00	0.20000D+02	178
12	za	0.00000D+00	0.48323D-01	0.97975D-01	73
13	ant	0.00000D+00	0.55249D-02	0.10000D+01	180
14	antl1	0.00000D+00	0.55249D-02	0.10000D+01	180
15	fir	0.00000D+00	0.12155D+00	0.22000D+02	180
16	fad	0.12012D+00	0.16347D+00	0.23153D+00	0
17	nc	0.17237D+06	0.30488D+06	0.47524D+06	0
18	p	0.12030D+03	0.13936D+03	0.16661D+03	0
19	rawem	0.60915D+02	0.78742D+02	0.10276D+03	0
20	tw	0.22765D+01	0.39196D+01	0.51588D+01	0
21	tt	0.18297D+02	0.21476D+02	0.28188D+02	0
22	t2t	0.92308D+01	0.10014D+02	0.11935D+02	0
23	eanfp	0.56603D+08	0.12411D+09	0.14653D+09	0
24	shonf	0.11300D+06	0.20996D+06	0.45578D+06	0
25	wd	0.19000D+02	0.20818D+02	0.23000D+02	0
26	sat	0.40000D+01	0.43481D+01	0.50000D+01	0
27	shd	0.40000D+01	0.52707D+01	0.70000D+01	0
28	rfrk	0.00000D+00	0.71459D+00	0.20581D+01	2
29	ex7	0.00000D+00	0.10101D+06	0.42499D+07	174
30	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	E (y)	SIGMA (y)	GAMMA (y)
	type	group					y (sample)	E (y)				
							-first obs	13	-first obs	170		
							-last obs	181	-last obs	181		
1 tlk	NL	0	-0.2182821D+03	0.1936095D+03	0.6186366D+03	-0.3528	-0.0021	-0.0021	-0.0023	-0.0022	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.0063		-0.0068	0.0000	0.0000
2 dumrfk	NL	0	-0.8965575D+06	0.9881657D+00	0.4081572D+06	-2.1966	-0.0438	-0.0438	-0.0470	-0.0470	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.1314		-0.1410	0.0000	0.0000
3 sfk	NL	0	-0.3005714D+05	0.2689872D+01	0.2128347D+05	-1.4122	-0.0040	-0.0040	-0.0064	-0.0064	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.0120		-0.0192	0.0000	0.0000
4 csfmr	NL	0	0.1475268D+05	0.2501124D+02	0.2331760D+04	6.3268	0.0182	0.0182	0.0277	0.0276	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0547		0.0830	0.0000	0.0000
5 rcutp	NL	0	0.1216012D+02	0.2350880D+05	0.4327363D+01	2.8101	0.0141	0.0141	0.0273	0.0273	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0424		0.0819	0.0000	0.0000
6 dumex7	NL	0	0.1478864D+07	0.4142012D-01	0.5352012D+06	2.7632	0.0030	0.0030	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0091		0.0000	0.0000	0.0000
7 ex8	NL	0	0.2681413D+01	0.2437638D+05	0.3654946D+00	7.3364	0.0032	0.0032	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0097		0.0000	0.0000	0.0000
8 ex9	NL	0	0.2041522D+01	0.1406952D+05	0.5091355D+00	4.0098	0.0014	0.0014	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0043		0.0000	0.0000	0.0000
9 ex0	NL	0	0.1456061D+01	0.1217808D+05	0.5996747D+00	2.4281	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0026		0.0000	0.0000	0.0000
10 ex1	NL	0	0.1433391D+01	0.1088501D+05	0.6896834D+00	2.0783	0.0008	0.0008	0.0115	0.0115	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0023		0.0346	0.0000	0.0000
11 str	NL	0	-0.7609838D+06	0.2603550D+00	0.2435453D+05	-31.2461	-0.0098	-0.0098	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.0294		0.0000	0.0000	0.0000
12 za	NL	0	0.5734021D+07	0.4666435D-01	0.2654635D+07	2.1600	0.0132	0.0132	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0397		0.0000	0.0000	0.0000
13 ant	NL	0	-0.9630749D+06	0.5917160D-02	0.5534546D+06	-1.7401	-0.0003	-0.0003	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.0008		0.0000	0.0000	0.0000
14 antl1	NL	0	0.7198052D+06	0.5917160D-02	0.5484593D+06	1.3124	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								0.0006		0.0000	0.0000	0.0000
15 fir	NL	0	-0.7285556D+05	0.1301775D+00	0.2817828D+05	-2.5855	-0.0005	-0.0005	-0.0070	-0.0070	0.0000	0.0000
								0.0000		0.0000	0.0000	0.0000
								-0.0014		-0.0210	0.0000	0.0000
16 fad	EL	1	-0.1554882D+08	0.1662501D+00	0.5106903D+07	-3.0447	-0.1278	-0.1278	-0.1804	-0.1804	-0.0002	-0.0002
								-0.0001		-0.5414	-0.0000	-0.0000
								-0.3834		-0.5061	-0.0000	-0.0000
17 nc	EL	1	-0.2081869D+02	0.3138985D+06	0.8263192D+01	-2.5194	-0.3231	-0.3231	-0.5061	-0.5061	-0.0005	-0.0005
								-0.0003		-1.5184	-0.0000	-0.0000
								-0.9694		0.3877	0.3877	0.3877
18 p	EL	1	0.4521646D+05	0.1406331D+03	0.5435975D+05	0.8318	0.3144	0.3144	0.3877	0.3877	0.3877	0.3877

									0.0003		0.0004
									0.9432		1.1633
19 rawem	EL	1	0.1458406D+06	0.7968800D+02	0.3684091D+05	3.9587	0.5746	0.7646	0.5746	0.7646	0.7645
									0.0006		0.0007
									1.7239		2.2942
20 tw	EL	1	-0.1604434D+07	0.4015184D+01	0.3205027D+06	-5.0060	-0.3185	-0.4102	-0.3185	-0.4102	-0.4101
									-0.0003		-0.0004
									-0.9556		-1.2308
21 tt	EL	1	-0.4240093D+06	0.2140038D+02	0.5203897D+05	-8.1479	-0.4487	-0.4249	-0.4487	-0.4249	-0.4248
									-0.0005		-0.0004
									-1.3460		-1.2748
22 t2t	EL	1	-0.4891735D+06	0.9963177D+01	0.1858974D+06	-2.6314	-0.2410	-0.2994	-0.2410	-0.2994	-0.2993
									-0.0003		-0.0003
									-0.7229		-0.8983
23 eanfp	EL	1	0.2346623D-01	0.1234865D+09	0.3478197D-02	6.7467	0.1433	0.1420	0.1433	0.1420	0.1420
									0.0002		0.0001
									0.4298		0.4262
24 shonf	EL	1	0.7180539D+01	0.2128346D+06	0.1064580D+01	6.7450	0.0756	0.0945	0.0756	0.0945	0.0945
									0.0001		0.0001
									0.2267		0.2834
25 wd	EL	1	0.5586311D+06	0.2082249D+02	0.6202157D+05	9.0070	0.5751	0.6100	0.5751	0.6100	0.6100
									0.0006		0.0006
									1.7254		1.8304
26 sat	EL	1	0.3195409D+06	0.4343195D+01	0.1026325D+06	3.1134	0.0686	0.0726	0.0686	0.0726	0.0726
									0.0001		0.0001
									0.2059		0.2178
27 shd	EL	1	0.3902941D+06	0.5272189D+01	0.7604338D+05	5.1325	0.1017	0.1074	0.1017	0.1074	0.1074
									0.0001		0.0001
									0.3052		0.3223
28 rfk	EL	1	-0.3273093D+06	0.7247003D+00	0.1123139D+06	-2.9142	-0.0117	-0.0095	-0.0117	-0.0095	-0.0095
									0.0000		0.0000
									-0.0352		-0.0285
29 ex7	EL	1	0.2164926D+01	0.1081871D+06	0.1666942D+00	12.9874	0.0116	0.0000	0.0116	0.0000	0.0000
									0.0000		0.0000
									0.0347		0.0000
30 constant	NL	0	-0.4573820D+07	0.1000000D+01	0.8761129D+07	-0.5221	-0.2261	-0.2397	-0.2261	-0.2397	-0.2397
									-0.0002		-0.0002
									-0.6785		-0.7193

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	-0.2182821D+03	-0.2182819D+03	-0.5385749D-02	0.1477306D-05
2 dumrfk	-0.8965575D+06	-0.8965570D+06	-0.2212107D+02	0.6067792D-02
3 sfk	-0.3005714D+05	-0.3005712D+05	-0.7416102D+00	0.2034231D-03
4 csfmr	0.1475268D+05	0.1475267D+05	0.3639979D+00	-0.9984431D-04
5 rcutp	0.1216012D+02	0.1216012D+02	0.3000309D-03	-0.8229823D-07
6 dumex7	0.1478864D+07	0.1478863D+07	0.3648851D+02	-0.1000877D-01
7 ex8	0.2681413D+01	0.2681412D+01	0.6615943D-04	-0.1814748D-07
8 ex9	0.2041522D+01	0.2041521D+01	0.5037118D-04	-0.1381677D-07
9 ex0	0.1456061D+01	0.1456060D+01	0.3592588D-04	-0.9854440D-08
10 ex1	0.1433391D+01	0.1433390D+01	0.3536655D-04	-0.9701015D-08
11 str	-0.7609838D+06	-0.7609834D+06	-0.1877602D+02	0.5150246D-02
12 za	0.5734021D+07	0.5734017D+07	0.1414775D+03	-0.3880715D-01
13 ant	-0.9630749D+06	-0.9630743D+06	-0.2376228D+02	0.6517973D-02
14 ant11	0.7198052D+06	0.7198048D+06	0.1776000D+02	-0.4871554D-02
15 fir	-0.7285556D+05	-0.7285551D+05	-0.1797590D+01	0.4930775D-03
16 fad	-0.1554882D+08	-0.1554881D+08	-0.3836413D+03	0.1052325D+00
17 nc	-0.2081869D+02	-0.2081868D+02	-0.5136667D-03	0.1408984D-06
18 p	0.4521646D+05	0.4521644D+05	0.1115641D+01	-0.3060195D-03
19 rawem	0.1458406D+06	0.1458405D+06	0.3598375D+01	-0.9870312D-03
20 tw	-0.1604434D+07	-0.1604433D+07	-0.3958676D+02	0.1085861D-01
21 tt	-0.4240093D+06	-0.4240090D+06	-0.1046173D+02	0.2869643D-02
22 t2t	-0.4891735D+06	-0.4891732D+06	-0.1206955D+02	0.3310666D-02
23 eanfp	0.2346623D-01	0.2346621D-01	0.5789903D-06	-0.1588166D-09
24 shonf	0.7180539D+01	0.7180534D+01	0.1771679D-03	-0.4859701D-07
25 wd	0.5586311D+06	0.5586308D+06	0.1378330D+02	-0.3780747D-02

26 sat	0.3195409D+06	0.3195407D+06	0.7884144D+01	-0.2162614D-02
27 shd	0.3902941D+06	0.3902939D+06	0.9629862D+01	-0.2641463D-02
28 rfk	-0.3273093D+06	-0.3273091D+06	-0.8075816D+01	0.2215189D-02
29 ex7	0.2164926D+01	0.2164924D+01	0.5341596D-04	-0.1465195D-07
30 constant	-0.4573820D+07	-0.4573817D+07	-0.1128514D+03	0.3095505D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.4053D+05	-0.1478D+09
SIGMA(y)	0.2467D-04	0.1000D+01	-0.3646D+04
GAMMA(y)	-0.6768D-08	-0.2743D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.9417D+03	0.3333D+00
SIGMA(y)	0.1062D-02	0.1000D+01	0.3540D-03
GAMMA(y)	0.3000D+01	0.2825D+04	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k) t1k	dumrfk	sfk	csfmr	rcutp	dumex7	ex8	ex9	ex0	ex1
t1k	0.1000D+01	0.4107D+04	0.1377D+03	-0.6759D+02	-0.5571D-01	-0.6775D+04	-0.1228D-01	-0.9353D-02	-0.6671D-02	-0.6567D-02
dumrfk	0.2435D-03	0.1000D+01	0.3353D-01	-0.1645D-01	-0.1356D-04	-0.1649D+01	-0.2991D-05	-0.2277D-05	-0.1624D-05	-0.1599D-05
sfk	0.7262D-02	0.2983D+02	0.1000D+01	-0.4908D+00	-0.4046D-03	-0.4920D+02	-0.8921D-04	-0.6792D-04	-0.4844D-04	-0.4769D-04
csfmr	-0.1480D-01	-0.6077D+02	-0.2037D+01	0.1000D+01	0.8243D-03	0.1002D+03	0.1818D-03	0.1384D-03	0.9870D-04	0.9716D-04
rcutp	-0.1795D+02	-0.7373D+05	-0.2472D+04	0.1213D+04	0.1000D+01	0.1216D+06	0.2205D+00	0.1679D+00	0.1197D+00	0.1179D+00
dumex7	-0.1476D-03	-0.6062D+00	-0.2032D-01	0.9976D-02	0.8223D-05	0.1000D+01	0.1813D-05	0.1380D-05	0.9846D-06	0.9693D-06
ex8	-0.8141D+02	-0.3344D+06	-0.1121D+05	0.5502D+04	0.4535D+01	0.5515D+06	0.1000D+01	0.7614D+00	0.5430D+00	0.5346D+00
ex9	-0.1069D+03	-0.4392D+06	-0.1472D+05	0.7226D+04	0.5956D+01	0.7244D+06	0.1313D+01	0.1000D+01	0.7132D+00	0.7021D+00
ex0	-0.1499D+03	-0.6157D+06	-0.2064D+05	0.1013D+05	0.8351D+01	0.1016D+07	0.1842D+01	0.1402D+01	0.1000D+01	0.9844D+00
ex1	-0.1523D+03	-0.6255D+06	-0.2097D+05	0.1029D+05	0.8483D+01	0.1032D+07	0.1871D+01	0.1424D+01	0.1016D+01	0.1000D+01
str	0.2868D-03	0.1178D+01	0.3950D-01	-0.1939D-01	-0.1598D-04	-0.1943D+01	-0.3524D-05	-0.2683D-05	-0.1913D-05	-0.1884D-05
za	-0.3807D-04	-0.1564D+00	-0.5242D-02	0.2573D-02	0.2121D-05	0.2579D+00	0.4676D-06	0.3560D-06	0.2539D-06	0.2500D-06
ant	0.2267D-03	0.9309D+00	0.3121D-01	-0.1532D-01	-0.1263D-04	-0.1536D+01	-0.2784D-05	-0.2120D-05	-0.1512D-05	-0.1488D-05
ant11	-0.3033D-03	-0.1246D+01	-0.4176D-01	0.2050D-01	0.1689D-04	0.2055D+01	0.3725D-05	0.2836D-05	0.2023D-05	0.1991D-05
fir	0.2996D-02	0.1231D+02	0.4126D+00	-0.2025D+00	-0.1669D-03	-0.2030D+02	-0.3680D-04	-0.2802D-04	-0.1999D-04	-0.1967D-04
fad	0.1404D-04	0.5766D-01	0.1933D-02	-0.9488D-03	-0.7821D-06	-0.9511D-01	-0.1725D-06	-0.1313D-06	-0.9364D-07	-0.9219D-07
nc	0.1048D+02	0.4307D+05	0.1444D+04	-0.7086D+03	-0.5841D+00	-0.7104D+05	-0.1288D+00	-0.9806D-01	-0.6994D-01	-0.6885D-01
p	-0.4827D-02	-0.1983D+02	-0.6647D+00	0.3263D+00	0.2689D-03	0.3271D+02	0.5930D-04	0.4515D-04	0.3220D-04	0.3170D-04
rawem	-0.1497D-02	-0.6148D+01	-0.2061D+00	0.1012D+00	0.8338D-04	0.1014D+02	0.1839D-04	0.1400D-04	0.9984D-05	0.9828D-05
tw	0.1360D-03	0.5588D+00	0.1873D-01	-0.9195D-02	-0.7579D-05	-0.9217D+00	-0.1671D-05	-0.1272D-05	-0.9075D-06	-0.8934D-06
tt	0.5148D-03	0.2114D+01	0.7089D-01	-0.3479D-01	-0.2868D-04	-0.3488D+01	-0.6324D-05	-0.4815D-05	-0.3434D-05	-0.3381D-05
t2t	0.4462D-03	0.1833D+01	0.6144D-01	-0.3016D-01	-0.2486D-04	-0.3023D+01	-0.5482D-05	-0.4173D-05	-0.2977D-05	-0.2930D-05
eanfp	-0.9302D+04	-0.3821D+08	-0.1281D+07	0.6287D+06	0.5182D+03	0.6302D+08	0.1143D+03	0.8700D+02	0.6205D+02	0.6108D+02
shonf	-0.3040D+02	-0.1249D+06	-0.4186D+04	0.2055D+04	0.1693D+01	0.2060D+06	0.3734D+00	0.2843D+00	0.2028D+00	0.1996D+00
wd	-0.3907D-03	-0.1605D+01	-0.5380D-01	0.2641D-01	0.2177D-04	0.2647D+01	0.4800D-05	0.3655D-05	0.2606D-05	0.2566D-05
sat	-0.6831D-03	-0.2806D+01	-0.9406D-01	0.4617D-01	0.3805D-04	0.4628D+01	0.8391D-05	0.6389D-05	0.4557D-05	0.4486D-05
shd	-0.5593D-03	-0.2297D+01	-0.7701D-01	0.3780D-01	0.3116D-04	0.3789D+01	0.6870D-05	0.5231D-05	0.3731D-05	0.3673D-05
rfk	0.6669D-03	0.2739D+01	0.9183D-01	-0.4507D-01	-0.3715D-04	-0.4518D+01	-0.8192D-05	-0.6237D-05	-0.4449D-05	-0.4379D-05

ex7	-0.1008D+03	-0.4141D+06	-0.1388D+05	0.6814D+04	0.5617D+01	0.6831D+06	0.1239D+01	0.9430D+00	0.6726D+00	0.6621D+00
constant	0.4772D-04	0.1960D+00	0.6572D-02	-0.3225D-02	-0.2659D-05	-0.3233D+00	-0.5863D-06	-0.4463D-06	-0.3183D-06	-0.3134D-06
X(k)	str	za	ant	antl1	fir	fad	nc	p	rawem	tw
X(l)										
tlk	0.3486D+04	-0.2627D+05	0.4412D+04	-0.3298D+04	0.3338D+03	0.7123D+05	0.9538D-01	-0.2071D+03	-0.6681D+03	0.7350D+04
dumrfk	0.8488D+00	-0.6396D+01	0.1074D+01	-0.8029D+00	0.8126D-01	0.1734D+02	0.2322D-04	-0.5043D-01	-0.1627D+00	0.1790D+01
sfk	0.2532D+02	-0.1908D+03	0.3204D+02	-0.2395D+02	0.2424D+01	0.5173D+03	0.6926D-03	-0.1504D+01	-0.4852D+01	0.5338D+02
csfmr	-0.5158D+02	0.3887D+03	-0.6528D+02	0.4879D+02	-0.4938D+01	-0.1054D+04	-0.1411D-02	0.3065D+01	0.9886D+01	-0.1088D+03
rcutp	-0.6258D+05	0.4715D+06	-0.7920D+05	0.5919D+05	-0.5991D+04	-0.1279D+07	-0.1712D+01	0.3718D+04	0.1199D+05	-0.1319D+06
dumex7	-0.5146D+00	0.3877D+01	-0.6512D+00	0.4867D+00	-0.4926D-01	-0.1051D+02	-0.1408D-04	0.3058D-01	0.9862D-01	-0.1085D+01
ex8	-0.2838D+06	0.2138D+07	-0.3592D+06	0.2684D+06	-0.2717D+05	-0.5799D+07	-0.7764D+01	0.1686D+05	0.5439D+05	-0.5984D+06
ex9	-0.3728D+06	0.2809D+07	-0.4717D+06	0.3526D+06	-0.3569D+05	-0.7616D+07	-0.1020D+02	0.2215D+05	0.7144D+05	-0.7859D+06
ex0	-0.5226D+06	0.3938D+07	-0.6614D+06	0.4944D+06	-0.5004D+05	-0.1068D+08	-0.1430D+02	0.3105D+05	0.1002D+06	-0.1102D+07
ex1	-0.5309D+06	0.4000D+07	-0.6719D+06	0.5022D+06	-0.5083D+05	-0.1085D+08	-0.1452D+02	0.3155D+05	0.1017D+06	-0.1119D+07
str	0.1000D+01	-0.7535D+01	0.1266D+01	-0.9459D+00	0.9574D-01	0.2043D+02	0.2736D-04	-0.5942D-01	-0.1916D+00	0.2108D+01
za	-0.1327D+00	0.1000D+01	-0.1680D+00	0.1255D+00	-0.1271D-01	-0.2712D+01	-0.3631D-05	0.7886D-02	0.2543D-01	-0.2798D+00
ant	0.7902D+00	-0.5954D+01	0.1000D+01	-0.7474D+00	0.7565D-01	0.1614D+02	0.2162D-04	-0.4695D-01	-0.1514D+00	0.1666D+01
antl1	-0.1057D+01	0.7966D+01	-0.1338D+01	0.1000D+01	-0.1012D+00	-0.2160D+02	-0.2892D-04	0.6282D-01	0.2026D+00	-0.2229D+01
fir	0.1045D+02	-0.7870D+02	0.1322D+02	-0.9880D+01	0.1000D+01	0.2134D+03	0.2858D-03	-0.6206D+00	-0.2002D+01	0.2202D+02
fad	0.4894D-01	-0.3688D+00	0.6194D-01	-0.4629D-01	0.4686D-02	0.1000D+01	0.1339D-05	-0.2908D-02	-0.9380D-02	0.1032D+00
nc	0.3655D+05	-0.2754D+06	0.4626D+05	-0.3457D+05	0.3500D+04	0.7469D+06	0.1000D+01	-0.2172D+04	-0.7005D+04	0.7707D+05
p	-0.1683D+02	0.1268D+03	-0.2130D+02	0.1592D+02	-0.1611D+01	-0.3439D+03	-0.4604D-03	0.1000D+01	0.3225D+01	-0.3548D+02
rawem	-0.5218D+01	0.3932D+02	-0.6604D+01	0.4936D+01	-0.4996D+00	-0.1066D+03	-0.1427D-03	0.3100D+00	0.1000D+01	-0.1100D+02
tw	0.4743D+00	-0.3574D+01	0.6003D+00	-0.4486D+00	0.4541D-01	0.9691D+01	0.1298D-04	-0.2818D-01	-0.9090D-01	0.1000D+01
tt	0.1795D+01	-0.1352D+02	0.2271D+01	-0.1698D+01	0.1718D+00	0.3667D+02	0.4910D-04	-0.1066D+00	-0.3440D+00	0.3784D+01
t2t	0.1556D+01	-0.1172D+02	0.1969D+01	-0.1471D+01	0.1489D+00	0.3179D+02	0.4256D-04	-0.9243D-01	-0.2981D+00	0.3280D+01
eanfp	-0.3243D+08	0.2444D+09	-0.4104D+08	0.3067D+08	-0.3105D+07	-0.6626D+09	-0.8872D+03	0.1927D+07	0.6215D+07	-0.6837D+08
shonf	-0.1060D+06	0.7986D+06	-0.1341D+06	0.1002D+06	-0.1015D+05	-0.2165D+07	-0.2899D+01	0.6297D+04	0.2031D+05	-0.2234D+06
wd	-0.1362D+01	0.1026D+02	-0.1724D+01	0.1289D+01	-0.1304D+00	-0.2783D+02	-0.3727D-04	0.8094D-01	0.2611D+00	-0.2872D+01
sat	-0.2381D+01	0.1794D+02	-0.3014D+01	0.2253D+01	-0.2280D+00	-0.4866D+02	-0.6515D-04	0.1415D+00	0.4564D+00	-0.5021D+01
shd	-0.1950D+01	0.1469D+02	-0.2468D+01	0.1844D+01	-0.1867D+00	-0.3984D+02	-0.5334D-04	0.1159D+00	0.3737D+00	-0.4111D+01
rfk	0.2325D+01	-0.1752D+02	0.2942D+01	-0.2199D+01	0.2226D+00	0.4750D+02	0.6361D-04	-0.1381D+00	-0.4456D+00	0.4902D+01
ex7	-0.3515D+06	0.2649D+07	-0.4449D+06	0.3325D+06	-0.3365D+05	-0.7182D+07	-0.9616D+01	0.2089D+05	0.6737D+05	-0.7411D+06
constant	0.1664D+00	-0.1254D+01	0.2106D+00	-0.1574D+00	0.1593D-01	0.3400D+01	0.4552D-05	-0.9886D-02	-0.3189D-01	0.3508D+00
X(k)	tt	t2t	eanfp	shonf	wd	sat	shd	rfk	ex7	constant
X(l)										
tlk	0.1942D+04	0.2241D+04	-0.1075D-03	-0.3290D-01	-0.2559D+04	-0.1464D+04	-0.1788D+04	0.1499D+04	-0.9918D-02	0.2095D+05
dumrfk	0.4729D+00	0.5456D+00	-0.2617D-07	-0.8009D-05	-0.6231D+00	-0.3564D+00	-0.4353D+00	0.3651D+00	-0.2415D-05	0.5102D+01
sfk	0.1411D+02	0.1627D+02	-0.7807D-06	-0.2389D-03	-0.1859D+02	-0.1063D+02	-0.1299D+02	0.1089D+02	-0.7203D-04	0.1522D+03
csfmr	-0.2874D+02	-0.3316D+02	0.1591D-05	0.4867D-03	0.3787D+02	0.2166D+02	0.2646D+02	-0.2219D+02	0.1467D-03	-0.3100D+03
rcutp	-0.3487D+05	-0.4023D+05	0.1930D-02	0.5905D+00	0.4594D+05	0.2628D+05	0.3210D+05	-0.2692D+05	0.1780D+00	-0.3761D+06
dumex7	-0.2867D+00	-0.3308D+00	0.1587D-07	0.4855D-05	0.3777D+00	0.2161D+00	0.2639D+00	-0.2213D+00	0.1464D-05	-0.3093D+01
ex8	-0.1581D+06	-0.1824D+06	0.8751D-02	0.2678D+01	0.2083D+06	0.1192D+06	0.1456D+06	-0.1221D+06	0.8074D+00	-0.1706D+07
ex9	-0.2077D+06	-0.2396D+06	0.1149D-01	0.3517D+01	0.2736D+06	0.1565D+06	0.1912D+06	-0.1603D+06	0.1060D+01	-0.2240D+07
ex0	-0.2912D+06	-0.3360D+06	0.1612D-01	0.4931D+01	0.3837D+06	0.2195D+06	0.2680D+06	-0.2248D+06	0.1487D+01	-0.3141D+07
ex1	-0.2958D+06	-0.3413D+06	0.1637D-01	0.5009D+01	0.3897D+06	0.2229D+06	0.2723D+06	-0.2283D+06	0.1510D+01	-0.3191D+07
str	0.5572D+00	0.6428D+00	-0.3084D-07	-0.9436D-05	-0.7341D+00	-0.4199D+00	-0.5129D+00	0.4301D+00	-0.2845D-05	0.6010D+01
za	-0.7395D-01	-0.8531D-01	0.4092D-08	0.1252D-05	0.9742D-01	0.5573D-01	0.6807D-01	-0.5708D-01	0.3776D-06	-0.7977D+00
ant	0.4403D+00	0.5079D+00	-0.2437D-07	-0.7456D-05	-0.5800D+00	-0.3318D+00	-0.4053D+00	0.3399D+00	-0.2248D-05	0.4749D+01
antl1	-0.5891D+00	-0.6796D+00	0.3260D-07	0.9976D-05	0.7761D+00	0.4439D+00	0.5422D+00	-0.4547D+00	0.3008D-05	-0.6354D+01

fir	0.5820D+01	0.6714D+01	-0.3221D-06	-0.9856D-04	-0.7668D+01	-0.4386D+01	-0.5357D+01	0.4493D+01	-0.2972D-04	0.6278D+02
fad	0.2727D-01	0.3146D-01	-0.1509D-08	-0.4618D-06	-0.3593D-01	-0.2055D-01	-0.2510D-01	0.2105D-01	-0.1392D-06	0.2942D+00
nc	0.2037D+05	0.2350D+05	-0.1127D-02	-0.3449D+00	-0.2683D+05	-0.1535D+05	-0.1875D+05	0.1572D+05	-0.1040D+00	0.2197D+06
p	-0.9377D+01	-0.1082D+02	0.5190D-06	0.1588D-03	0.1235D+02	0.7067D+01	0.8632D+01	-0.7239D+01	0.4788D-04	-0.1012D+03
rawem	-0.2907D+01	-0.3354D+01	0.1609D-06	0.4924D-04	0.3830D+01	0.2191D+01	0.2676D+01	-0.2244D+01	0.1484D-04	-0.3136D+02
tw	0.2643D+00	0.3049D+00	-0.1463D-07	-0.4475D-05	-0.3482D+00	-0.1992D+00	-0.2433D+00	0.2040D+00	-0.1349D-05	0.2851D+01
tt	0.1000D+01	0.1154D+01	-0.5534D-07	-0.1693D-04	-0.1317D+01	-0.7536D+00	-0.9205D+00	0.7719D+00	-0.5106D-05	0.1079D+02
t2t	0.8668D+00	0.1000D+01	-0.4797D-07	-0.1468D-04	-0.1142D+01	-0.6532D+00	-0.7979D+00	0.6691D+00	-0.4426D-05	0.9350D+01
eanfp	-0.1807D+08	-0.2085D+08	0.1000D+01	0.3060D+03	0.2381D+08	0.1362D+08	0.1663D+08	-0.1395D+08	0.9226D+02	-0.1949D+09
shonf	-0.5905D+05	-0.6812D+05	0.3268D-02	0.1000D+01	0.7780D+05	0.4450D+05	0.5435D+05	-0.4558D+05	0.3015D+00	-0.6370D+06
wd	-0.7590D+00	-0.8757D+00	0.4201D-07	0.1285D-04	0.1000D+01	0.5720D+00	0.6987D+00	-0.5859D+00	0.3875D-05	-0.8188D+01
sat	-0.1327D+01	-0.1531D+01	0.7344D-07	0.2247D-04	0.1748D+01	0.1000D+01	0.1221D+01	-0.1024D+01	0.6775D-05	-0.1431D+02
shd	-0.1086D+01	-0.1253D+01	0.6012D-07	0.1840D-04	0.1431D+01	0.8187D+00	0.1000D+01	-0.8386D+00	0.5547D-05	-0.1172D+02
rfk	0.1295D+01	0.1495D+01	-0.7169D-07	-0.2194D-04	-0.1707D+01	-0.9763D+00	-0.1192D+01	0.1000D+01	-0.6614D-05	0.1397D+02
ex7	-0.1959D+06	-0.2260D+06	0.1084D-01	0.3317D+01	0.2580D+06	0.1476D+06	0.1803D+06	-0.1512D+06	0.1000D+01	-0.2113D+07
constant	0.9270D-01	0.1070D+00	-0.5131D-08	-0.1570D-05	-0.1221D+00	-0.6986D-01	-0.8533D-01	0.7156D-01	-0.4733D-06	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 13 181

	OBSERVED Y	FITTED E(Y)
MEAN	0.2022502D+08	0.2022501D+08
STD.ERROR	0.2267823D+07	0.2218352D+07
SKEWNESS	0.5426857	0.4097394

E(y) at the means : 0.2022501D+08

Sig(y) at the means : 0.4699429D+06

C.o.V. at the means : 0.0232357

Gam(y) at the means : -0.0456260

Pearson-R2 : 0.9568486

Pearson-R2 bar : 0.9478458

Pseudo-(1)-R2 : 0.9568486

Pseudo-(1)-R2 bar : 0.9478458

Error Variance : 0.2206152D+12

Log-likelihood : -0.2446914D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

```

Variant ad_bc2auhg
      6      500      0.1D+01      0.1D-06
0.00000D+00 0.00000D+00 0.10000D+01 0.10000D+01 0.00000D+00 0.10000D+01
0.10000D+01 0.10000D+01 0.10000D+01 0.10000D+01 0.10000D+01 0.10000D+01
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)
-0.2770441060D+03 0.00000D+00 0.00000D+00 0.10000D+01 0.10000D+01 0.10000D+01

new absolute minimum , parameters for fcn entry      5 follow - - f,x(i)
-0.3093928730D+03 0.35801D+00 0.51497D+00 0.10388D+01 0.89811D+00 0.23417D-01 0.10000D+01

new absolute minimum , parameters for fcn entry      9 follow - - f,x(i)
-0.3137827190D+03 0.17182D+00 0.77544D+00 0.87603D+00 0.92937D+00 0.14846D+00 0.10022D+01

new absolute minimum , parameters for fcn entry     12 follow - - f,x(i)
-0.3140112322D+03 0.14110D+00 0.79180D+00 0.88626D+00 0.87112D+00 0.16568D+00 0.10019D+01

new absolute minimum , parameters for fcn entry     14 follow - - f,x(i)
-0.3141285966D+03 0.16201D+00 0.78031D+00 0.82899D+00 0.82135D+00 0.19659D+00 0.99627D+00

new absolute minimum , parameters for fcn entry     17 follow - - f,x(i)
-0.3151229469D+03 0.13517D+00 0.10244D+01 0.92136D+00 0.81387D+00 0.21612D+00 0.65877D+00

new absolute minimum , parameters for fcn entry     20 follow - - f,x(i)
-0.3151897318D+03 0.11596D+00 0.10568D+01 0.89686D+00 0.79804D+00 0.15084D+00 0.64504D+00

new absolute minimum , parameters for fcn entry     26 follow - - f,x(i)
-0.3157992788D+03 0.22805D-01 0.12768D+01 0.93396D+00 0.82712D+00 0.22192D+00 0.66713D+00

new absolute minimum , parameters for fcn entry     29 follow - - f,x(i)

```

```

-0.3160666944D+03 -0.19023D-02 0.14256D+01 0.91476D+00 0.80986D+00 0.33868D+00 0.63764D+00
new absolute minimum , parameters for fcn entry 31 follow - - f,x(i)
-0.3162443494D+03 0.19183D-01 0.14375D+01 0.89406D+00 0.79735D+00 0.41701D+00 0.58013D+00
new absolute minimum , parameters for fcn entry 34 follow - - f,x(i)
-0.3163910105D+03 0.20051D-01 0.15198D+01 0.89830D+00 0.77297D+00 0.46476D+00 0.18028D+00
new absolute minimum , parameters for fcn entry 36 follow - - f,x(i)
-0.3164167772D+03 0.14899D-01 0.15600D+01 0.91945D+00 0.78766D+00 0.48366D+00 0.19052D+00
new absolute minimum , parameters for fcn entry 38 follow - - f,x(i)
-0.3164183042D+03 0.15440D-01 0.15677D+01 0.91634D+00 0.78901D+00 0.48293D+00 0.20444D+00
new absolute minimum , parameters for fcn entry 40 follow - - f,x(i)
-0.3164193444D+03 0.14928D-01 0.15754D+01 0.91536D+00 0.78520D+00 0.46915D+00 0.25520D+00
new absolute minimum , parameters for fcn entry 42 follow - - f,x(i)
-0.3164201687D+03 0.15145D-01 0.15729D+01 0.91628D+00 0.78684D+00 0.44372D+00 0.30561D+00
new absolute minimum , parameters for fcn entry 44 follow - - f,x(i)
-0.3164201719D+03 0.15121D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44402D+00 0.30505D+00
new absolute minimum , parameters for fcn entry 45 follow - - f,x(i)
-0.3164201719D+03 0.15122D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44401D+00 0.30500D+00
new absolute minimum , parameters for fcn entry 46 follow - - f,x(i)
-0.3164201719D+03 0.15122D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44401D+00 0.30496D+00
new absolute minimum , parameters for fcn entry 47 follow - - f,x(i)
-0.3164201719D+03 0.15122D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44401D+00 0.30496D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.3164201719D+03 0.15122D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44401D+00 0.30496D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3164201719D+03 for entry 47 - - x(i) follows
0.15122D-01 0.15733D+01 0.91651D+00 0.78710D+00 0.44401D+00 0.30496D+00

```

run statistics follow - -

nfcn= 47 nst= 18

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

```

Estimation Sample : 13 181
OBSERVED Y FITTED E(Y)
MEAN 0.2022502D+08 0.2022720D+08
STD ERROR 0.2267823D+07 0.2270573D+07
SKEWNESS 0.5426857 0.5856324

```

E(y) at the means : 0.2023116D+08

Sig(y) at the means : 0.3760014D+06

C.o.V. at the means : 0.0185853

Gam(y) at the means : -0.0773821

Pearson-R2 : 0.9728268

Pearson-R2 bar : 0.9656760

Pseudo-(1)-R2 : 0.9809601

Pseudo-(1)-R2 bar : 0.9759496

Error Variance : 0.1826175D+08

Log-likelihood : -0.2407538D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)	COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)
	type	group				-first obs	13	-first obs	170
						-last obs	181	-last obs	181
1 tlk	NL	0	-0.7760998D+01	-0.1027184D-13	0.2549956D+02	-0.3044	-0.0027	-0.0027	-0.0029
					0.2160385D+02	-0.3592	-0.0006	-0.0006	-0.0006
							-0.0076	-0.0076	-0.0089
2 dumrfk	NL	0	-0.1964505D+05	-0.5820972D-16	0.4626149D+05	-0.4247	-0.0345	-0.0345	-0.0367
					0.7377293D+04	-2.6629	-0.0074	-0.0074	-0.0079
							-0.0979	-0.0979	-0.1152
3 sfk	NL	0	0.1159115D+03	-0.5393240D-15	0.4313737D+03	0.2687	0.0006	0.0006	0.0009
					0.3129821D+03	0.3703	0.0001	0.0001	0.0002
							0.0016	0.0016	0.0028
4 csfmr	NL	0	0.4329106D+02	-0.1686486D-14	0.1094462D+03	0.3955	0.0019	0.0019	0.0029
					0.7024668D+02	0.6163	0.0004	0.0004	0.0006

5	rcutp	NL	0	-0.4686843D+00	-0.1869045D-11	0.1104941D+01 0.2860386D+00	-0.4242 -1.6385	-0.0196	0.0055 -0.0196 -0.0042 -0.0556	-0.0373	0.0091 -0.0375 -0.0080 -0.1176
6	dumex7	NL	0	0.2087945D+05	0.6261268D-16	0.5360991D+05 0.9869374D+04	0.3895 2.1156	0.0015	0.0015 0.0003 0.0044	0.0000	0.0000 0.0000 0.0000 0.0000
7	ex8	NL	0	0.7161537D-01	-0.7020162D-11	0.1652875D+00 0.1332372D-01	0.4333 5.3750	0.0031	0.0031 0.0007 0.0088	0.0000	0.0000 0.0000 0.0000 0.0000
8	ex9	NL	0	0.4748618D-01	-0.1809486D-10	0.1122738D+00 0.2030350D-01	0.4229 2.3388	0.0012	0.0012 0.0003 0.0034	0.0000	0.0000 0.0000 0.0000 0.0000
9	ex0	NL	0	0.7443624D-02	0.2795986D-11	0.3526093D-01 0.2909004D-01	0.2111 0.2559	0.0002	0.0002 0.0000 0.0005	0.0000	0.0000 0.0000 0.0000 0.0000
10	ex1	NL	0	0.9680419D-03	0.3030062D-11	0.4266493D-01 0.4177727D-01	0.0227 0.0232	0.0000	0.0000 0.0000 0.0001	0.0003	0.0003 0.0001 0.0009
11	str	NL	0	-0.2206541D+05	0.7979728D-16	0.4964786D+05 0.4196959D+03	-0.4444 -52.5748	-0.0102	-0.0102 -0.0022 -0.0290	0.0000	0.0000 0.0000 0.0000 0.0000
12	za	NL	0	0.2536997D+06	-0.1620374D-17	0.5921799D+06 0.5268102D+05	0.4284 4.8158	0.0210	0.0210 0.0045 0.0597	0.0000	0.0000 0.0000 0.0000 0.0000
13	ant	NL	0	-0.2241657D+05	0.6979551D-17	0.5187420D+05 0.8949426D+04	-0.4321 -2.5048	-0.0002	-0.0002 -0.0001 -0.0007	0.0000	0.0000 0.0000 0.0000 0.0000
14	ant11	NL	0	0.9610241D+04	-0.2385245D-17	0.2132586D+05 0.5284013D+04	0.4506 1.8187	0.0001	0.0001 0.0000 0.0003	0.0000	0.0000 0.0000 0.0000 0.0000
15	fir	NL	0	-0.7558568D+03	-0.3946684D-16	0.2808912D+17 0.2603465D+17	0.0000 0.0000	-0.0002	-0.0002 0.0000 -0.0005	-0.0026	-0.0026 -0.0006 -0.0081
16	fad	EL	1	-0.5635122D+06	0.4115038D-16	0.1401544D+07 0.7219145D+05	-0.4021 -7.8058	-0.1933	-0.1933 -0.0414 -0.5490	-0.2632	-0.2647 -0.0566 -0.8295
17	nc	EL	1	-0.1695427D+01	-0.8204974D-11	0.3642981D+01 0.6874487D+00	-0.4654 -2.4663	-0.3286	-0.3285 -0.0704 -0.9331	-0.4920	-0.4948 -0.1059 -1.5509
18	p	EL	1	0.3621032D+03	-0.5804361D-14	0.1677914D+04 0.1392773D+04	0.2158 0.2600	0.0599	0.0598 0.0128 0.1700	0.0720	0.0724 0.0155 0.2269
19	rawem	EL	1	0.5477880D+04	-0.3041956D-14	0.1114160D+05 0.1675304D+04	0.4917 3.2698	0.5380	0.5379 0.1152 1.5278	0.6938	0.6977 0.1493 2.1869
20	tw	EL	1	0.6498285D+02	-0.2596908D-15	0.9636933D+04 0.9400710D+04	0.0067 0.0069	0.0004	0.0004 0.0001 0.0012	0.0005	0.0005 0.0001 0.0016
21	tt	EL	1	-0.1531284D+05	-0.8816447D-15	0.3079265D+05 0.1094195D+04	-0.4973 -13.9946	-0.4508	-0.4506 -0.0965 -1.2800	-0.4256	-0.4280 -0.0916 -1.3415
22	t2t	EL	1	0.8186561D+04	-0.2390120D-15	0.1804531D+05 0.7953753D+04	0.4537 1.0293	0.1196	0.1196 0.0256 0.3396	0.1448	0.1456 0.0312 0.4565
23	eanfp	EL	1	0.7977783D-02	-0.1085926D-08	0.2054444D-01 0.1493091D-02	0.3883 5.3431	0.3694	0.3693 0.0791 1.0489	0.3637	0.3658 0.0783 1.1464
24	shonf	EL	1	0.4013535D+00	-0.1991079D-11	0.9135857D+00 0.2973498D+00	0.4393 1.3498	0.0451	0.0452 0.2887 112537.6215	0.0592	0.0574 0.3058 122274.5091
25	wd	EL	1	0.2375651D+05	-0.3811579D-15	0.4874675D+05 0.6121436D+04	0.4873 3.8809	0.6820	0.6818 0.1461 1.9366	0.7144	0.7185 0.1538 2.2519
26	sat	EL	1	0.1343001D+05	-0.1073866D-15	0.2940427D+05 0.5711306D+04	0.4567 2.3515	0.0917	0.0916 0.0196 0.2603	0.0958	0.0963 0.0206 0.3019
27	shd	EL	1	0.1094160D+05	-0.5635224D-15	0.2454192D+05 0.5824942D+04	0.4458 1.8784	0.0892	0.0892 0.0191 0.2533	0.0930	0.0936 0.0200 0.2932
28	rfk	EL	1	-0.6764802D+04	0.2168571D-16	0.1568052D+05 0.1952843D+04	-0.4314 -3.4641	-0.0089	-0.0089 -0.0019 -0.0254	-0.0073	-0.0074 -0.0016 -0.0231
29	ex7	EL	1	0.2243716D+00	0.4193623D-10	0.4803917D+00 0.1165850D-01	0.4671 19.2453	0.0164	0.0164 0.0035 0.0465	0.0000	0.0000 0.0000 0.0000
30	constant	NL	0	-0.4540119D+06	-0.4848578D-16	0.1226774D+07 0.2501987D+06	-0.3701 -1.8146	-0.8065	-0.8063 -0.1727 -2.2903	-0.8445	-0.8493 -0.1818 -2.6618
Autocorrelation											
31	rho 1			0.1512049D-01	0.7101983D-06	0.4531057D-01 0.4441777D-01	0.3337 0.3404				
32	rho 12			0.9175467D+00	0.1037212D-06	0.4489326D-01 0.4452128D-01	20.4384 20.6092				
Box-cox on (x)											
33	lambda (x) 1			0.9165073D+00	0.6356588D-07	0.1743797D+00	5.2558 -0.4788				
Box-cox on (y)											
34	lambda (y)			0.7870990D+00	-0.6808442D-07	0.1363678D+00	5.7719 -1.5612				
Heteroskedasticity											
35	delta 1			0.1326105D-01	0.2356191D-05	0.7145784D+00	0.0186	0.0451	0.0452	0.0592	0.0574

			0.1244765D-01	1.0653	0.2887	0.3058
					0.1125D+06	0.1223D+06
36 lambda(z) 1	0.3049635D+00	0.3728694D-06	0.4406285D+01	0.0692		
				-0.1577		
Residual (w)						
37 error variance	0.1826175D+08	-0.1340033D-20	0.4334942D+09	0.0421		
			0.3070628D+08	0.5947		

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 tlk	-0.2788360D+03	-0.2788459D+03	-0.1110317D+01	0.3029572D-05
2 dumrfk	-0.7058045D+06	-0.7058294D+06	-0.2810493D+04	0.7668613D-02
3 sfk	0.4164452D+04	0.4164599D+04	0.1658273D+02	-0.4524705D-04
4 csfmr	0.1555355D+04	0.1555410D+04	0.6193378D+01	-0.1689904D-04
5 rcutp	-0.1683882D+02	-0.1683942D+02	-0.6705170D-01	0.1829550D-06
6 dumex7	0.7501541D+06	0.7501805D+06	0.2987092D+04	-0.8150475D-02
7 ex8	0.2572987D+01	0.2573077D+01	0.1024556D-01	-0.2795567D-07
8 ex9	0.1706077D+01	0.1706137D+01	0.6793549D-02	-0.1853664D-07
9 ex0	0.2674334D+00	0.2674429D+00	0.1064912D-02	-0.2905683D-08
10 ex1	0.3477967D-01	0.3478090D-01	0.1384917D-03	-0.3778835D-09
11 str	-0.7927630D+06	-0.7927910D+06	-0.3156759D+04	0.8613424D-02
12 za	0.9114887D+07	0.9115208D+07	0.3629521D+05	-0.9903386D-01
13 ant	-0.8053793D+06	-0.8054077D+06	-0.3206997D+04	0.8750500D-02
14 antl1	0.3452754D+06	0.3452875D+06	0.1374876D+04	-0.3751440D-02
15 fir	-0.2715632D+05	-0.2715728D+05	-0.1081357D+03	0.2950552D-03
16 fad	-0.2351773D+08	-0.2351856D+08	-0.9364691D+05	0.2555217D+00
17 nc	-0.2117234D+02	-0.2117308D+02	-0.8430763D-01	0.2300389D-06
18 p	0.8608236D+04	0.8608540D+04	0.3427775D+02	-0.9352907D-04
19 rawem	0.1365499D+06	0.1365547D+06	0.5437378D+03	-0.1483624D-02
20 tw	0.2078859D+04	0.2078933D+04	0.8277957D+01	-0.2258695D-04
21 tt	-0.4259970D+06	-0.4260120D+06	-0.1696308D+04	0.4628486D-02
22 t2t	0.2427582D+06	0.2427668D+06	0.9666561D+03	-0.2637584D-02
23 eanfp	0.6049543D-01	0.6049757D-01	0.2408911D-03	-0.6572870D-09
24 shonf	0.4282630D+01	0.4291837D+01	0.5100479D+00	-0.4091628D-01
25 wd	0.6624089D+06	0.6624322D+06	0.2637693D+04	-0.7197117D-02
26 sat	0.4268302D+06	0.4268453D+06	0.1699625D+04	-0.4637539D-02
27 shd	0.3421617D+06	0.3421738D+06	0.1362478D+04	-0.3717610D-02
28 rfk	-0.2496676D+06	-0.2496764D+06	-0.9941691D+03	0.2712655D-02
29 ex7	0.3062544D+01	0.3062652D+01	0.1219496D-01	-0.3327475D-07
30 constant	-0.1631168D+08	-0.1631225D+08	-0.6495262D+05	0.1772275D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2511D+03	-0.9204D+08
SIGMA(y)	0.3982D-02	0.1000D+01	-0.3665D+06
GAMMA(y)	-0.1086D-07	-0.2729D-05	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E (y)	SIGMA (y)	GAMMA (y)
E (y)	0.1000D+01	0.4668D+01	0.3520D+00
SIGMA (y)	0.2142D+00	0.1000D+01	0.7543D-01
GAMMA (y)	0.2841D+01	0.1326D+02	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	tlk	dumrfk	sfk	csfmr	rcutp	dumex7	ex8	ex9	ex0	ex1
tlk		0.1000D+01	0.2531D+04	-0.1494D+02	-0.5578D+01	0.6039D-01	-0.2690D+04	-0.9228D-02	-0.6119D-02	-0.9591D-03	-0.1247D-03
dumrfk		0.3951D-03	0.1000D+01	-0.5900D-02	-0.2204D-02	0.2386D-04	-0.1063D+01	-0.3645D-05	-0.2417D-05	-0.3789D-06	-0.4928D-07
sfk		-0.6696D-01	-0.1695D+03	0.1000D+01	0.3735D+00	-0.4043D-02	0.1801D+03	0.6178D-03	0.4097D-03	0.6422D-04	0.8352D-05
csfmr		-0.1793D+00	-0.4538D+03	0.2677D+01	0.1000D+01	-0.1083D-01	0.4823D+03	0.1654D-02	0.1097D-02	0.1719D-03	0.2236D-04
rcutp		0.1656D+02	0.4192D+05	-0.2473D+03	-0.9237D+02	0.1000D+01	-0.4455D+05	-0.1528D+00	-0.1013D+00	-0.1588D-01	-0.2065D-02
dumex7		-0.3717D-03	-0.9409D+00	0.5551D-02	0.2073D-02	-0.2245D-04	0.1000D+01	0.3430D-05	0.2274D-05	0.3565D-06	0.4636D-07
ex8		-0.1084D+03	-0.2743D+06	0.1619D+04	0.6045D+03	-0.6544D+01	0.2915D+06	0.1000D+01	0.6631D+00	0.1039D+00	0.1352D-01
ex9		-0.1634D+03	-0.4137D+06	0.2441D+04	0.9117D+03	-0.9870D+01	0.4397D+06	0.1508D+01	0.1000D+01	0.1568D+00	0.2039D-01
ex0		-0.1043D+04	-0.2639D+07	0.1557D+05	0.5816D+04	-0.6296D+02	0.2805D+07	0.9621D+01	0.6379D+01	0.1000D+01	0.1300D+00
ex1		-0.8017D+04	-0.2029D+08	0.1197D+06	0.4472D+05	-0.4842D+03	0.2157D+08	0.7398D+02	0.4905D+02	0.7689D+01	0.1000D+01
str		0.3517D-03	0.8903D+00	-0.5253D-02	-0.1962D-02	0.2124D-04	-0.9463D+00	-0.3246D-05	-0.2152D-05	-0.3373D-06	-0.4387D-07
za		-0.3059D-04	-0.7743D-01	0.4569D-03	0.1706D-03	-0.1847D-05	0.8230D-01	0.2823D-06	0.1872D-06	0.2934D-07	0.3816D-08
ant		0.3462D-03	0.8764D+00	-0.5171D-02	-0.1931D-02	0.2091D-04	-0.9314D+00	-0.3195D-05	-0.2118D-05	-0.3321D-06	-0.4318D-07
antl1		-0.8076D-03	-0.2044D+01	0.1206D-01	0.4505D-02	-0.4877D-04	0.2173D+01	0.7452D-05	0.4941D-05	0.7746D-06	0.1007D-06
fir		0.1027D-01	0.2599D+02	-0.1534D+00	-0.5727D-01	0.6201D-03	-0.2762D+02	-0.9475D-04	-0.6282D-04	-0.9848D-05	-0.1281D-05
fad		0.1186D-04	0.3001D-01	-0.1771D-03	-0.6614D-04	0.7160D-06	-0.3190D-01	-0.1094D-06	-0.7254D-07	-0.1137D-07	-0.1479D-08
nc		0.1317D+02	0.3334D+05	-0.1967D+03	-0.7346D+02	0.7953D+00	-0.3543D+05	-0.1215D+00	-0.8058D-01	-0.1263D-01	-0.1643D-02
p		-0.3239D-01	-0.8199D+02	0.4838D+00	0.1807D+00	-0.1956D-02	0.8714D+02	0.2989D-03	0.1982D-03	0.3107D-04	0.4040D-05
rawem		-0.2042D-02	-0.5169D+01	0.3050D-01	0.1139D-01	-0.1233D-03	0.5494D+01	0.1884D-04	0.1249D-04	0.1959D-05	0.2547D-06
tw		-0.1341D+00	-0.3395D+03	0.2003D+01	0.7482D+00	-0.8100D-02	0.3608D+03	0.1238D-02	0.8207D-03	0.1286D-03	0.1673D-04
tt		0.6545D-03	0.1657D+01	-0.9776D-02	-0.3651D-02	0.3953D-04	-0.1761D+01	-0.6040D-05	-0.4005D-05	-0.6278D-06	-0.8164D-07
t2t		-0.1149D-02	-0.2907D+01	0.1715D-01	0.6407D-02	-0.6936D-04	0.3090D+01	0.1060D-04	0.7028D-05	0.1102D-05	0.1433D-06
eanfp		-0.4609D+04	-0.1167D+08	0.6884D+05	0.2571D+05	-0.2783D+03	0.1240D+08	0.4253D+02	0.2820D+02	0.4421D+01	0.5749D+00
shonf		-0.6497D+02	-0.1645D+06	0.9704D+03	0.3624D+03	-0.3924D+01	0.1748D+06	0.5995D+00	0.3975D+00	0.6231D-01	0.8104D-02
wd		-0.4209D-03	-0.1066D+01	0.6287D-02	0.2348D-02	-0.2542D-04	0.1132D+01	0.3884D-05	0.2576D-05	0.4037D-06	0.5250D-07
sat		-0.6533D-03	-0.1654D+01	0.9757D-02	0.3644D-02	-0.3945D-04	0.1757D+01	0.6028D-05	0.3997D-05	0.6266D-06	0.8148D-07
shd		-0.8149D-03	-0.2063D+01	0.1217D-01	0.4546D-02	-0.4921D-04	0.2192D+01	0.7520D-05	0.4986D-05	0.7816D-06	0.1016D-06
rfk		0.1117D-02	0.2827D+01	-0.1668D-01	-0.6230D-02	0.6744D-04	-0.3005D+01	-0.1031D-04	-0.6833D-05	-0.1071D-05	-0.1393D-06
ex7		-0.9105D+02	-0.2305D+06	0.1360D+04	0.5079D+03	-0.5498D+01	0.2449D+06	0.8401D+00	0.5571D+00	0.8732D-01	0.1136D-01
constant		0.1709D-04	0.4327D-01	-0.2553D-03	-0.9535D-04	0.1032D-05	-0.4599D-01	-0.1577D-06	-0.1046D-06	-0.1640D-07	-0.2132D-08
X(l)	X(k)	str	za	ant	antl1	fir	fad	nc	p	rawem	tw
tlk		0.2843D+04	-0.3269D+05	0.2888D+04	-0.1238D+04	0.9739D+02	0.8434D+05	0.7593D-01	-0.3087D+02	-0.4897D+03	-0.7455D+01
dumrfk		0.1123D+01	-0.1291D+02	0.1141D+01	-0.4892D+00	0.3848D-01	0.3332D+02	0.3000D-04	-0.1220D-01	-0.1935D+00	-0.2945D-02
sfk		-0.1904D+03	0.2189D+04	-0.1934D+03	0.8291D+02	-0.6521D+01	-0.5647D+04	-0.5084D-02	0.2067D+01	0.3279D+02	0.4992D+00
csfmr		-0.5097D+03	0.5860D+04	-0.5178D+03	0.2220D+03	-0.1746D+02	-0.1512D+05	-0.1361D-01	0.5535D+01	0.8779D+02	0.1337D+01
rcutp		0.4708D+05	-0.5413D+06	0.4783D+05	-0.2050D+05	0.1613D+04	0.1397D+07	0.1257D+01	-0.5112D+03	-0.8109D+04	-0.1235D+03
dumex7		-0.1057D+01	0.1215D+02	-0.1074D+01	0.4603D+00	-0.3620D-01	-0.3135D+02	-0.2822D-04	0.1148D-01	0.1820D+00	0.2771D-02
ex8		-0.3081D+06	0.3543D+07	-0.3130D+06	0.1342D+06	-0.1055D+05	-0.9140D+07	-0.8229D+01	0.3346D+04	0.5307D+05	0.8080D+03
ex9		-0.4647D+06	0.5343D+07	-0.4721D+06	0.2024D+06	-0.1592D+05	-0.1378D+08	-0.1241D+02	0.5046D+04	0.8004D+05	0.1219D+04
ex0		-0.2964D+07	0.3408D+08	-0.3012D+07	0.1291D+07	-0.1015D+06	-0.8794D+08	-0.7917D+02	0.3219D+05	0.5106D+06	0.7773D+04
ex1		-0.2279D+08	0.2621D+09	-0.2316D+08	0.9928D+07	-0.7808D+06	-0.6762D+09	-0.6088D+03	0.2475D+06	0.3926D+07	0.5977D+05

str	0.1000D+01	-0.1150D+02	0.1016D+01	-0.4355D+00	0.3426D-01	0.2967D+02	0.2671D-04	-0.1086D-01	-0.1722D+00	-0.2622D-02
za	-0.8697D-01	0.1000D+01	-0.8836D-01	0.3788D-01	-0.2979D-02	-0.2580D+01	-0.2323D-05	0.9444D-03	0.1498D-01	0.2281D-03
ant	0.9843D+00	-0.1132D+02	0.1000D+01	-0.4287D+00	0.3372D-01	0.2920D+02	0.2629D-04	-0.1069D-01	-0.1695D+00	-0.2581D-02
antl1	-0.2296D+01	0.2640D+02	-0.2333D+01	0.1000D+01	-0.7865D-01	-0.6811D+02	-0.6132D-04	0.2493D-01	0.3955D+00	0.6021D-02
fir	0.2919D+02	-0.3356D+03	0.2966D+02	-0.1271D+02	0.1000D+01	0.8660D+03	0.7796D-03	-0.3170D+00	-0.5028D+01	-0.7655D-01
fad	0.3371D-01	-0.3876D+00	0.3425D-01	-0.1468D-01	0.1155D-02	0.1000D+01	0.9003D-06	-0.3660D-03	-0.5806D-02	-0.8840D-04
nc	0.3744D+05	-0.4305D+06	0.3804D+05	-0.1631D+05	0.1283D+04	0.1111D+07	0.1000D+01	-0.4066D+03	-0.6449D+04	-0.9819D+02
p	-0.9209D+02	0.1059D+04	-0.9356D+02	0.4011D+02	-0.3155D+01	-0.2732D+04	-0.2460D-02	0.1000D+01	0.1586D+02	0.2415D+00
rawem	-0.5806D+01	0.6675D+02	-0.5898D+01	0.2529D+01	-0.1989D+00	-0.1722D+03	-0.1551D-03	0.6304D-01	0.1000D+01	0.1522D-01
tw	-0.3813D+03	0.4385D+04	-0.3874D+03	0.1661D+03	-0.1306D+02	-0.1131D+05	-0.1018D-01	0.4141D+01	0.6569D+02	0.1000D+01
tt	0.1861D+01	-0.2140D+02	0.1891D+01	-0.8105D+00	0.6375D-01	0.5521D+02	0.4970D-04	-0.2021D-01	-0.3205D+00	-0.4880D-02
t2t	-0.3266D+01	0.3755D+02	-0.3318D+01	0.1422D+01	-0.1119D+00	-0.9688D+02	-0.8722D-04	0.3546D-01	0.5625D+00	0.8563D-02
eanfp	-0.1310D+08	0.1507D+09	-0.1331D+08	0.5707D+07	-0.4489D+06	-0.3888D+09	-0.3500D+03	0.1423D+06	0.2257D+07	0.3436D+05
shonf	-0.1847D+06	0.2124D+07	-0.1877D+06	0.8045D+05	-0.6328D+04	-0.5480D+07	-0.4933D+01	0.2006D+04	0.3182D+05	0.4844D+03
wd	-0.1197D+01	0.1376D+02	-0.1216D+01	0.5212D+00	-0.4100D-01	-0.3550D+02	-0.3196D-04	0.1300D-01	0.2061D+00	0.3138D-02
sat	-0.1857D+01	0.2135D+02	-0.1887D+01	0.8089D+00	-0.6362D-01	-0.5510D+02	-0.4960D-04	0.2017D-01	0.3199D+00	0.4870D-02
shd	-0.2317D+01	0.2664D+02	-0.2354D+01	0.1009D+01	-0.7937D-01	-0.6873D+02	-0.6188D-04	0.2516D-01	0.3991D+00	0.6076D-02
rfk	0.3175D+01	-0.3651D+02	0.3226D+01	-0.1383D+01	0.1088D+00	0.9420D+02	0.8480D-04	-0.3448D-01	-0.5469D+00	-0.8327D-02
ex7	-0.2589D+06	0.2976D+07	-0.2630D+06	0.1127D+06	-0.8867D+04	-0.7679D+07	-0.6913D+01	0.2811D+04	0.4459D+05	0.6788D+03
constant	0.4860D-01	-0.5588D+00	0.4937D-01	-0.2117D-01	0.1665D-02	0.1442D+01	0.1298D-05	-0.5277D-03	-0.8371D-02	-0.1274D-03
=====										
X(1)	X(k)	tt	t2t	eanfp	shonf	wd	sat	shd	rfk	ex7
=====										
tlk	0.1528D+04	-0.8706D+03	-0.2170D-03	-0.1539D-01	-0.2376D+04	-0.1531D+04	-0.1227D+04	0.8954D+03	-0.1098D-01	0.5850D+05
dumrfk	0.6036D+00	-0.3439D+00	-0.8571D-07	-0.6081D-05	-0.9385D+00	-0.6047D+00	-0.4848D+00	0.3537D+00	-0.4339D-05	0.2311D+02
sfk	-0.1023D+03	0.5829D+02	0.1453D-04	0.1031D-02	0.1591D+03	0.1025D+03	0.8216D+02	-0.5995D+02	0.7354D-03	-0.3917D+04
csfmr	-0.2739D+03	0.1561D+03	0.3889D-04	0.2759D-02	0.4259D+03	0.2744D+03	0.2200D+03	-0.1605D+03	0.1969D-02	-0.1049D+05
rcutp	0.2530D+05	-0.1442D+05	-0.3593D-02	-0.2549D+00	-0.3934D+05	-0.2535D+05	-0.2032D+05	0.1483D+05	-0.1819D+00	0.9687D+06
dumex7	-0.5679D+00	0.3236D+00	0.8064D-07	0.5721D-05	0.8830D+00	0.5690D+00	0.4561D+00	-0.3328D+00	0.4083D-05	-0.2174D+02
ex8	-0.1656D+06	0.9435D+05	0.2351D-01	0.1668D+01	0.2574D+06	0.1659D+06	0.1330D+06	-0.9703D+05	0.1190D+01	-0.6340D+07
ex9	-0.2497D+06	0.1423D+06	0.3546D-01	0.2516D+01	0.3883D+06	0.2502D+06	0.2006D+06	-0.1463D+06	0.1795D+01	-0.9561D+07
ex0	-0.1593D+07	0.9077D+06	0.2262D+00	0.1605D+02	0.2477D+07	0.1596D+07	0.1279D+07	-0.9336D+06	0.1145D+02	-0.6099D+08
ex1	-0.1225D+08	0.6980D+07	0.1739D+01	0.1234D+03	0.1905D+08	0.1227D+08	0.9838D+07	-0.7179D+07	0.8806D+02	-0.4690D+09
str	0.5374D+00	-0.3062D+00	-0.7631D-07	-0.5414D-05	-0.8356D+00	-0.5384D+00	-0.4316D+00	0.3149D+00	-0.3863D-05	0.2058D+02
za	-0.4674D-01	0.2663D-01	0.6637D-08	0.4708D-06	0.7267D-01	0.4683D-01	0.3754D-01	-0.2739D-01	0.3360D-06	-0.1790D+01
ant	0.5289D+00	-0.3014D+00	-0.7511D-07	-0.5329D-05	-0.8225D+00	-0.5300D+00	-0.4248D+00	0.3100D+00	-0.3803D-05	0.2025D+02
antl1	-0.1234D+01	0.7031D+00	0.1752D-06	0.1243D-04	0.1918D+01	0.1236D+01	0.9910D+00	-0.7231D+00	0.8870D-05	-0.4724D+02
fir	0.1569D+02	-0.8939D+01	-0.2228D-05	-0.1580D-03	-0.2439D+02	-0.1572D+02	-0.1260D+02	0.9194D+01	-0.1128D-03	0.6007D+03
fad	0.1811D-01	-0.1032D-01	-0.2572D-08	-0.1825D-06	-0.2817D-01	-0.1815D-01	-0.1455D-01	0.1062D-01	-0.1302D-06	0.6936D+00
nc	0.2012D+05	-0.1147D+05	-0.2857D-02	-0.2027D+00	-0.3129D+05	-0.2016D+05	-0.1616D+05	0.1179D+05	-0.1446D+00	0.7704D+06
p	-0.4949D+02	0.2820D+02	0.7028D-05	0.4986D-03	0.7695D+02	0.4958D+02	0.3975D+02	-0.2900D+02	0.3558D-03	-0.1895D+04
rawem	-0.3120D+01	0.1778D+01	0.4430D-06	0.3143D-04	0.4851D+01	0.3126D+01	0.2506D+01	-0.1828D+01	0.2243D-04	-0.1195D+03
tw	-0.2049D+03	0.1168D+03	0.2910D-04	0.2064D-02	0.3186D+03	0.2053D+03	0.1646D+03	-0.1201D+03	0.1473D-02	-0.7846D+04
tt	0.1000D+01	-0.5699D+00	-0.1420D-06	-0.1007D-04	-0.1555D+01	-0.1002D+01	-0.8032D+00	0.5861D+00	-0.7189D-05	0.3829D+02
t2t	-0.1755D+01	0.1000D+01	0.2492D-06	0.1768D-04	0.2729D+01	0.1758D+01	0.1409D+01	-0.1028D+01	0.1262D-04	-0.6719D+02
eanfp	-0.7042D+07	0.4013D+07	0.1000D+01	0.7094D+02	0.1095D+08	0.7056D+07	0.5656D+07	-0.4127D+07	0.5062D+02	-0.2696D+09
shonf	-0.9926D+05	0.5656D+05	0.1410D-01	0.1000D+01	0.1543D+06	0.9946D+05	0.7973D+05	-0.5817D+05	0.7136D+00	-0.3801D+07
wd	-0.6431D+00	0.3665D+00	0.9133D-07	0.6479D-05	0.1000D+01	0.6444D+00	0.5165D+00	-0.3769D+00	0.4623D-05	-0.2462D+02
sat	-0.9980D+00	0.5687D+00	0.1417D-06	0.1005D-04	0.1552D+01	0.1000D+01	0.8016D+00	-0.5849D+00	0.7175D-05	-0.3822D+02
shd	-0.1245D+01	0.7095D+00	0.1768D-06	0.1254D-04	0.1936D+01	0.1247D+01	0.1000D+01	-0.7297D+00	0.8951D-05	-0.4767D+02
rfk	0.1706D+01	-0.9723D+00	-0.2423D-06	-0.1719D-04	-0.2653D+01	-0.1710D+01	-0.1370D+01	0.1000D+01	-0.1227D-04	0.6533D+02

```

ex7          -0.1391D+06  0.7927D+05  0.1975D-01  0.1401D+01  0.2163D+06  0.1394D+06  0.1117D+06 -0.8152D+05  0.1000D+01 -0.5326D+07
constant     0.2612D-01 -0.1488D-01 -0.3709D-08 -0.2631D-06 -0.4061D-01 -0.2617D-01 -0.2098D-01  0.1531D-01 -0.1878D-06  0.1000D+01

Log-likelihood
- initial value :      -2446.9141
- final value   :      -2407.5380
- ratio test    :           78.7521

Pearson-r2      :           0.9728
Pearson-r2 bar  :           0.9657
Pseudo-(1)-r2   :           0.9810
Pseudo-(1)-r2 bar :         0.9759
Std-error of (w) :         4273.3773

Number of observations   first-last obs.no.
- sample      :    181          1 -    181
- estimation   :    169          13 -    181

CPU TIME:          0.48 sec

```

1.12 Third Example of Input Files

This example can be found in directory *d:\Level1new\Level1Tests\Third Example*.

It contains nine estimated variants reported in Table 5 in *Gaudry (1984)*, pp. 90-93. The database file *Drag1.in* is fully described with the definitions of the variables in *Gaudry, Baldino and Liem (1984)*. All the corresponding batch files are stored in this directory.

Input file 1: GAR1_bc1au.in

```

$card1 nobs=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=43,nro=2,nsl=23,ngf=0,maxf=0,ngv=1,maxv=20,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='ga_bclau',nvariant=51$

3 10 0. 0.
1. 20
1 0.
Drag1.in
(a8/(5d15.6))
GAR1
MOCYPAD
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH
TLK822
RFK822
SFK822
CSFMR822
LOIIND61
LOIAS
MOP62
VWMD

```

EX7
JO
PGRPKM
ENTRNMDC
FAD822
PCBNETT
AUPPOP
VUTGAPAD
PPAS
SURPOL
TW822
PERPA
PRCHOM
PRFEVM
PRMED
PRALT
EIQF
RSIDPQPE
LIVMADPE
WD
SAT
SHD

Input file 2: DICR1_bc1au.in

```
$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=30,nro=6,ns1=19,ngf=0,maxf=0,ngv=1,maxv=11,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='di_bc1au',nvariant=11$

1 3 7 8 9 12 0. 0. 0. 0. 0. 0.
1. 11
1 0.
Drag1.in
(a8/(5d15.6))
DICR1
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH
TLK822
RFK822
SFK822
CSFMR822
LOIIND61
LOIAS
MOP62
LIVMAD
IPDRQO
ENTRNMDC
VUTDIPAD
SURPOL
PRALT
RSIDPQ
VEHSF
WD
SAT
SHD
```

Input file 3: MA_bc1au.in

```
$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=42,nro=9,ns1=23,ngf=0,maxf=0,ngv=1,maxv=19,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='ma_bc1au',nvariant=30$
```

```

1 2 3 4 5 6 8 10 12 0. 0. 0. 0. 0. 0. 0. 0. 0.
1. 19
1 0.
Drag1.in
(a8/(5d15.6))
MA
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH
TLK822
RFK822
SFK822
CSFMR822
LOIIND61
LOIAS
MOP62
PRMVACR1
DUM78RAU
SED78RAU
CONSTA
KMPARR1
DICR1
PGRPKM
PDRQ
ENTRNMDC
PPAS
SURPOL
PERPA
PRCHOM
PRFEVM
HEUHM
PRMED
PRALT
PRMTRAR1
PRMMAGR1
DMSR
WD
SAT
SHD

```

Input file 4: NM_bc1au.in

```

$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=38,nro=11,ns1=20,ngf=0,maxf=0,ngv=1,maxv=18,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='nm_bc1au',nvariant=30$

1 3 4 5 6 7 8 9 11 12 13 0. 0. 0. 0. 0. 0. 0. 0. 0.
1. 18
1 0.
Drag1.in
(a8/(5d15.6))
NM
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH

```

TLK822
 RFK822
 SFK822
 CSFMR822
 LOIIND61
 LOIAS
 MOP62
 PRMVACR1
 KMPARR1
 DICR1
 PGRPKM
 PDRQ
 ENTRNMDC
 PPAS
 SURPOL
 PERPA
 PRCHOM
 PRFEVM
 HEUHM
 PRMED
 PRALT
 PRMTRAR1
 PRMMAGR1
 WD
 SAT
 SHD

Input file 5: MO_bc1au.in

```

$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=38,nro=9,ns1=20,ngf=0,maxf=0,ngv=1,maxv=18,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ncov=0,ney=0,varname='mo_bc1au',nvariant=30$

```

```

2 3 4 5 7 8 11 12 13 0. 0. 0. 0. 0. 0. 0. 0. 0.

```

```

1. 18

```

```

1 0.

```

```

Drag1.in

```

```

(a8/(5d15.6))

```

```

MO

```

```

DISCEIN

```

```

LVCEI

```

```

P08PC

```

```

PTDEM

```

```

NCROUT04

```

```

GRPOL

```

```

STR813

```

```

STRP

```

```

STRCUQ

```

```

GRVOY

```

```

AUTPKRP

```

```

GRMUMH

```

```

TLK822

```

```

RFK822

```

```

SFK822

```

```

CSFMR822

```

```

LOIIND61

```

```

LOIAS

```

```

MOP62

```

```

PRMVACR1

```

```

KMPARR1

```

```

DICR1

```

```

PGRPKM

```

```

PDRQ

```

```

ENTRNMDC

```

```

PPAS

```

```

SURPOL

```

```

PERPA

```

```

PRCHOM

```

```

PRFEVM

```

```

HEUHM

```

```

PRMED

```

```

PRALT

```

```

PRMTRAR1

```

PRMMAGR1
WD
SAT
SHD

Input file 6: COR_bc1au.in

```
$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$  
$card2 nb=38,nro=12,ns1=20,ngf=0,maxf=0,ngv=1,maxv=18,nly=2,ndm=-1,nle=0,nd=0$  
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='co_bc1au',nvariant=31$  
  
1 2 3 4 5 7 8 9 10 11 12 13 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.  
1. 18  
1 0.  
Drag1.in  
(a8/(5d15.6))  
COR  
DISCEIN  
LVCEI  
P08PC  
PTDEM  
NCROUT04  
GRPOL  
STR813  
STRP  
STRCUQ  
GRVOY  
AUTPKRP  
GRMUMH  
TLK822  
RFK822  
SFK822  
CSFMR822  
LOIIND61  
LOIAS  
MOP62  
PRMVACR1  
KMPARR1  
DICR1  
PGRPKM  
PDRQ  
ENTRNMDC  
PPAS  
SURPOL  
PERPA  
PRCHOM  
PRFEVM  
HEUHM  
PRMED  
PRALT  
PRMTRAR1  
PRMMAGR1  
WD  
SAT  
SHD
```

Input file 7: ACC_bc1au.in

```
$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$  
$card2 nb=42,nro=9,ns1=23,ngf=0,maxf=0,ngv=1,maxv=19,nly=2,ndm=-1,nle=0,nd=0$  
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='ac_bc1au',nvariant=29$  
  
1 2 3 4 5 7 9 10 12 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.  
1. 19  
1 0.  
Drag1.in  
(a8/(5d15.6))  
ACC  
DISCEIN  
LVCEI  
P08PC  
PTDEM
```

NCROUT04
 GRPOL
 STR813
 STRP
 STRCUQ
 GRVOY
 AUTPKRP
 GRMUMH
 TLK822
 RFK822
 SFK822
 CSFMR822
 LOIIND61
 LOIAS
 MOP62
 PRMVACR1
 DUM78RAU
 SED78RAU
 CONSTA
 KMPARR1
 DICR1
 PGRPKM
 PDRQ
 ENTRNMDC
 PPAS
 SURPOL
 PERFA
 PRCHOM
 PRFEVM
 HEUHM
 PRMED
 PRALT
 PRMTRAR1
 PRMMAGR1
 DMSR
 WD
 SAT
 SHD

Input file 8: MBC_bc2au.in

```

$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=38,nro=3,ns1=20,ngf=0,maxf=0,ngv=1,maxv=18,nly=1,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,npdql=0,ncov=0,ney=0,varname='mb_bc2au',nvariant=45$

4 6 10 0. 0. 0.
1. 18
1. 0.
Drag1.in
(a8/(5d15.6))
MBC
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH
TLK822
RFK822
SFK822
CSFMR822
LOIIND61
LOIAS
MOP62
PRMVACR1
KMPARR1
DICR1

```

```

PGRPKM
PDRQ
ENTRNMDC
PPAS
SURPOL
PERPA
PRCHOM
PRFEVM
HEUHM
PRMED
PRALT
PRMTRAR1
PRMMAGR1
WD
SAT
SHD

```

Input file 9: MTC_bc1au.in

```

$card1 nob=313,nc=14,nf=313,nfp=313,nobel=12,nm=0,nstep=500,epsi=1.d-7,wght=1.$
$card2 nb=38,nro=8,ns1=20,ngf=0,maxf=0,ngv=1,maxv=18,nly=2,ndm=-1,nle=0,nd=0$
$card3 ncor=0,nres=0,npw=0,nguvw=0,ndql=0,ncov=0,ney=0,varname='mt_bc1au',nvariant=30$

4 5 6 7 8 10 11 12 0. 0. 0. 0. 0. 0. 0. 0.
1. 18
1 0.
Drag1.in
(a8/(5d15.6))
MTC
DISCEIN
LVCEI
P08PC
PTDEM
NCROUT04
GRPOL
STR813
STRP
STRCUQ
GRVOY
AUTPKRP
GRMUMH
TLK822
RFK822
SFK822
CSFMR822
LOIIND61
LOIAS
MOP62
PRMVACR1
KMPARR1
DICR1
PGRPKM
PDRQ
ENTRNMDC
PPAS
SURPOL
PERPA
PRCHOM
PRFEVM
HEUHM
PRMED
PRALT
PRMTRAR1
PRMMAGR1
WD
SAT
SHD

```

1.13 Third Example of Output Files

Output file 1: GAR1_bc1au.txt

```

&CARD1
NOBS      =      313,
NC        =      14,
NF        =      313,
NFP       =      313,
NOBEL     =      12,
NM         =      0,
NSTEP     =      500,
EPSI      = 1.0000000000000000E-007,
WGHT      = 1.0000000000000000
/
&CARD2
NB        =      43,
NRO       =      2,
NSL       =      23,
NGF       =      0,
MAXF      =      0,
NGV       =      1,
MAXV      =      20,
NLY       =      2,
NDM       =     -1,
NLE       =      0,
ND        =      0
/
&CARD3
NCOR      =      0,
NRES      =      0,
NPW       =      0,
NGUVW     =      0,
NPDQL     =      0,
NCOV      =      0,
NEY       =      0,
VARNAME   = ga_bc1au ,
NVARIANT  =      51
/

```

Working space used : 35240 out of 500000

```

autocorrelation of orders:      3      10
rho initial values: 0.0000000000000000E+000 0.0000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
21 22 23

```

```

group      1 (estimated lambda(x))
initial value: 1.0000000000000000
variable no.
 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43

```

```

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value: 1.0000000000000000
upper limit for y 0.0000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	GAR1	0.18604D+09	0.48510D+09	0.77197D+09	0
1	MOCYPAD	0.00000D+00	0.12459D-01	0.48228D-01	105
2	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
3	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
4	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
5	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
6	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
7	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
8	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
9	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
10	STRUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
11	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
12	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
13	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
14	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
15	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
16	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
17	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
18	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
19	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
20	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
21	VWMD	0.00000D+00	0.12005D+01	0.12730D+02	253
22	EX7	0.00000D+00	0.58414D+05	0.42499D+07	306
23	JO	0.00000D+00	0.20128D-01	0.46000D+01	310
24	FGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	FAD822	0.12012D+00	0.16956D+00	0.23153D+00	0
27	PCBNETT	0.73315D+02	0.11887D+03	0.25852D+03	0
28	AUPPOP	0.13232D+00	0.26675D+00	0.40732D+00	0
29	VUTGAPAD	0.43433D-01	0.56216D-01	0.69565D-01	0
30	PPAS	0.10000D+00	0.15846D+00	0.26970D+00	0

31	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
32	TW822	0.24131D+01	0.47378D+01	0.75727D+01	0
33	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
34	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
35	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
36	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
37	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
38	EIQP	0.56142D+02	0.13131D+03	0.16140D+03	0
39	RSIDPQPE	0.16330D+04	0.26418D+04	0.45863D+04	0
40	LIVMADPE	0.40908D+04	0.61901D+04	0.86649D+04	0
41	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
42	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
43	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
44	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y) SIGMA(y) GAMMA(y)		y(sample)	E(y) SIGMA(y) GAMMA(y)	
1	MOCYPAD	NL	0	0.8951904D+08	0.1288647D-01	0.1710617D+09	0.5233	-first obs	14	-first obs	302	
								-last obs	313	-last obs	313	
2	DISCEIN	NL	0	0.1252664D+09	0.4581333D+00	0.6259802D+08	2.0011	0.0023	0.0023	0.0033	0.0033	
								0.0000	0.0000	0.0000	0.0000	
3	LVCEI	NL	0	-0.9136437D+07	0.2558333D+00	0.1134645D+08	-0.8052	0.0070	0.0070	0.0099	0.0099	
								0.0001	0.0001	0.0001	0.0001	
4	P08PC	NL	0	-0.5913663D+07	0.5233333D+00	0.1005436D+08	-0.5882	0.3480	0.3480	0.6605	0.6605	
								-0.0047	-0.0047	-0.0160	-0.0160	
5	PTDEM	NL	0	0.1683710D+08	0.3933333D+00	0.1095085D+08	1.5375	0.0000	0.0000	0.0000	0.0000	
								-0.0142	-0.0142	-0.0482	-0.0482	
6	NCRROUT04	NL	0	-0.4098595D+08	0.3000000D-01	0.1477487D+08	-2.7740	-0.0062	-0.0062	-0.0104	-0.0104	
								0.0000	0.0000	0.0000	0.0000	
7	GRPOL	NL	0	-0.5294275D+07	0.1055554D-01	0.8646463D+07	-0.6123	-0.0188	-0.0188	-0.0312	-0.0312	
								0.0134	0.0134	0.0296	0.0296	
8	STR813	NL	0	0.1076582D+07	0.4733333D+00	0.5075763D+06	2.1210	0.0000	0.0000	0.0000	0.0000	
								0.0402	0.0402	0.0888	0.0888	
9	STRP	NL	0	0.2123333D+07	0.1266667D+00	0.9719124D+06	2.1847	-0.0025	-0.0025	-0.0540	-0.0540	
								0.0000	0.0000	0.0000	0.0000	
10	STRCUQ	NL	0	0.9457623D+05	0.1300000D+01	0.2493840D+06	0.3792	-0.0075	-0.0075	-0.1621	-0.1621	
								0.0001	0.0001	0.0000	0.0000	
11	GRVOY	NL	0	0.3198717D+06	0.7900000D+00	0.2917491D+06	1.0964	0.0000	0.0000	0.0000	0.0000	
								-0.0003	-0.0003	0.0000	0.0000	
12	AUTPKRP	NL	0	0.1925688D+09	0.3251368D+00	0.6796443D+08	2.8334	0.0010	0.0010	0.0020	0.0020	
								0.0000	0.0000	0.0000	0.0000	
13	GRMUMH	NL	0	0.4457786D+05	0.1716667D+00	0.7130621D+06	0.0625	0.0031	0.0031	0.0061	0.0061	
								0.0005	0.0005	0.0025	0.0025	
14	TLK822	NL	0	0.5969342D+05	0.1928373D+03	0.1981887D+05	3.0119	0.0000	0.0000	0.0000	0.0000	
								0.0016	0.0016	0.0075	0.0075	
15	RFK822	NL	0	-0.3867577D+07	0.7708521D+00	0.3068496D+07	-1.2604	0.0002	0.0002	0.0002	0.0002	
								0.0000	0.0000	0.0000	0.0000	
16	SFK822	NL	0	0.8899679D+06	0.2509268D+01	0.6457316D+06	1.3782	0.0007	0.0007	0.0006	0.0006	
								0.0005	0.0005	0.0000	0.0000	
17	CSFMR822	NL	0	-0.3843338D+06	0.2353299D+02	0.9576401D+05	-4.0133	0.0015	0.0015	0.0000	0.0000	
								0.1263	0.1263	0.1737	0.1737	
18	LOIIND61	NL	0	0.1506091D+08	0.8600000D+00	0.9540660D+07	1.5786	0.0001	0.0001	0.0001	0.0001	
								0.3796	0.3796	0.5217	0.5217	
19	LOIAS	NL	0	0.1453281D+08	0.1933333D+00	0.1117310D+08	1.3007	0.0000	0.0000	0.0000	0.0000	
								0.0000	0.0000	0.0000	0.0000	
20	MOP62	NL	0	0.6901284D+07	0.8200000D+00	0.8662446D+07	0.7967	0.0000	0.0000	0.0000	0.0000	
								0.0000	0.0000	0.0000	0.0000	
21	VWMD	NL	0	0.2452696D+07	0.1218467D+01	0.3536015D+07	0.6936	0.0000	0.0000	0.0000	0.0000	
								0.0232	0.0232	0.0198	0.0198	
22	EX7	NL	0	0.3599656D+01	0.6094487D+05	0.3239980D+01	1.1110	0.0000	0.0000	0.0000	0.0000	
								0.0698	0.0698	0.0593	0.0593	
23	JO	NL	0	-0.4837833D+07	0.2100000D-01	0.4779887D+07	-1.0121	-0.0060	-0.0060	-0.0051	-0.0051	
								0.0000	0.0000	0.0000	0.0000	
24	PGRPKM	EL	1	-0.2618357D+10	0.1602677D-01	0.2196545D+10	-1.1920	-0.0181	-0.0181	-0.0154	-0.0154	
								0.0045	0.0045	0.0026	0.0026	
25	ENTRNMDC	EL	1	0.1289057D+07	0.6295400D+02	0.7127214D+06	1.8086	0.0000	0.0000	0.0000	0.0000	
								0.0135	0.0135	0.0077	0.0077	
26	FAD822	EL	1	0.3308975D+09	0.1715308D+00	0.1328918D+09	2.4900	-0.0182	-0.0182	-0.0135	-0.0135	
								0.0000	0.0000	0.0000	0.0000	

27	PCBNETT	EL	1	0.1990242D+05	0.1208047D+03	0.3154530D+06	0.0631	0.0048	0.3442 0.0048 0.0000 0.0146	0.0088	0.0087 0.0000 0.0263
28	AUPPOP	EL	1	0.6260378D+09	0.2724206D+00	0.3407497D+09	1.8372	0.3439	0.3439 0.0002 1.0341	0.4045	0.4044 0.0002 1.2148
29	VUTGAPAD	EL	1	0.7851396D+09	0.5675750D-01	0.7554049D+09	1.0394	0.0899	0.0899 0.0000 0.2702	0.0768	0.0768 0.0000 0.2306
30	PPAS	EL	1	-0.1660297D+10	0.1609208D+00	0.4405001D+09	-3.7691	-0.5388	-0.5388 -0.0002 -1.6200	-0.7592	-0.7590 -0.0004 -2.2800
31	SURPOL	EL	1	-0.9655752D+07	0.8257199D+01	0.2328474D+07	-4.1468	-0.1608	-0.1608 -0.0001 -0.4834	-0.1306	-0.1305 -0.0001 -0.3921
32	TW822	EL	1	0.2271750D+08	0.4824481D+01	0.7510999D+07	3.0246	0.2210	0.2210 0.0001 0.6645	0.2548	0.2548 0.0001 0.7654
33	PERPA	EL	1	0.9953397D+08	0.1297782D+01	0.5452609D+08	1.8254	0.2605	0.2605 0.0001 0.7832	0.2539	0.2538 0.0001 0.7625
34	PRCHOM	EL	1	-0.9141266D+09	0.3883502D-01	0.2666020D+09	-3.4288	-0.0716	-0.0716 0.0000 -0.2152	-0.0919	-0.0919 -0.0001 -0.2762
35	PRFEVM	EL	1	-0.8077665D+10	0.1139801D-01	0.3807546D+10	-2.1215	-0.1857	-0.1857 -0.0001 -0.5582	-0.1483	-0.1483 -0.0001 -0.4455
36	PRMED	EL	1	-0.7104844D+07	0.3003970D+01	0.5757697D+07	-1.2340	-0.0430	-0.0430 0.0000 -0.1294	-0.0462	-0.0462 0.0000 -0.1387
37	PRALT	EL	1	-0.1025805D+08	0.7172662D+00	0.2449481D+08	-0.4188	-0.0148	-0.0148 0.0000 -0.0446	-0.0139	-0.0139 0.0000 -0.0416
38	EIQP	EL	1	-0.7391673D+05	0.1319275D+03	0.4929785D+06	-0.1499	-0.0197	-0.0197 0.0000 -0.0591	-0.0170	-0.0170 0.0000 -0.0511
39	RSIDPQPE	EL	1	0.4714373D+05	0.2671541D+04	0.9802697D+04	4.8093	0.2540	0.2540 0.0001 0.7637	0.2746	0.2745 0.0002 0.8246
40	LIVMADPE	EL	1	0.8743751D+04	0.6262122D+04	0.6565651D+04	1.3317	0.1104	0.1104 0.0000 0.3320	0.1209	0.1208 0.0001 0.3630
41	WD	EL	1	0.4096354D+07	0.2086000D+02	0.1915100D+07	2.1390	0.1723	0.1723 0.0001 0.5181	0.1510	0.1510 0.0001 0.4536
42	SAT	EL	1	-0.4910265D+07	0.4346667D+01	0.3126771D+07	-1.5704	-0.0430	-0.0430 0.0000 -0.1294	-0.0374	-0.0373 0.0000 -0.1122
43	SHD	EL	1	-0.5924418D+07	0.5226667D+01	0.2292352D+07	-2.5844	-0.0624	-0.0624 0.0000 -0.1878	-0.0529	-0.0529 0.0000 -0.1588
44	constant	NL	0	-0.1134435D+11	0.1000000D+01	0.4543264D+10	-2.4970	-22.8785	-22.8785 -0.0101 -68.7848	-19.9164	-19.9112 -0.0116 -59.8170

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 MOCYPAD	0.8951904D+08	0.8951899D+08	0.1422295D+04	-0.6597563D-02
2 DISCEIN	0.1252664D+09	0.1252663D+09	0.1990256D+04	-0.9232147D-02
3 LVCEI	-0.9136437D+07	-0.9136432D+07	-0.1451614D+03	0.6733564D-03
4 P08PC	-0.5913663D+07	-0.5913659D+07	-0.9395739D+02	0.4358376D-03
5 PTDEM	0.1683710D+08	0.1683709D+08	0.2675110D+03	-0.1240896D-02
6 NCRROUT04	-0.4098595D+08	-0.4098593D+08	-0.6511925D+03	0.3020669D-02
7 GRPOL	-0.5294275D+07	-0.5294272D+07	-0.8411643D+02	0.3901886D-03
8 STR813	0.1076582D+07	0.1076582D+07	0.1710494D+02	-0.7934423D-04
9 STRP	0.2123333D+07	0.2123332D+07	0.3373591D+02	-0.1564899D-03
10 STRCUQ	0.9457623D+05	0.9457617D+05	0.1502645D+01	-0.6970278D-05
11 GRVOY	0.3198717D+06	0.3198715D+06	0.5082182D+01	-0.2357458D-04
12 AUTPKRP	0.1925688D+09	0.1925687D+09	0.3059569D+04	-0.1419234D-01
13 GRMUMH	0.4457786D+05	0.4457784D+05	0.7082615D+00	-0.3285393D-05
14 TLK822	0.5969342D+05	0.5969338D+05	0.9484202D+00	-0.4399411D-05
15 RFK822	-0.3867577D+07	-0.3867574D+07	-0.6144878D+02	0.2850408D-03
16 SFK822	0.8899679D+06	0.8899674D+06	0.1413998D+02	-0.6559073D-04

17	CSFMR822	-0.3843338D+06	-0.3843336D+06	-0.6106367D+01	0.2832544D-04
18	LOIIND61	0.1506091D+08	0.1506090D+08	0.2392906D+03	-0.1109991D-02
19	LOIAS	0.1453281D+08	0.1453280D+08	0.2309000D+03	-0.1071070D-02
20	MOP62	0.6901284D+07	0.6901280D+07	0.1096489D+03	-0.5086254D-03
21	VWMD	0.2452696D+07	0.2452694D+07	0.3896889D+02	-0.1807639D-03
22	EX7	0.3599656D+01	0.3599654D+01	0.5719201D-04	-0.2652950D-09
23	JO	-0.4837833D+07	-0.4837830D+07	-0.7686440D+02	0.3565488D-03
24	PGRPKM	-0.2618357D+10	-0.2618355D+10	-0.4160094D+05	0.1929732D+00
25	ENTRNMD	0.1289057D+07	0.1289056D+07	0.2048078D+02	-0.9500363D-04
26	FAD822	0.3308975D+09	0.3308973D+09	0.5257362D+04	-0.2438718D-01
27	PCBNETT	0.1990242D+05	0.1990241D+05	0.3162134D+00	-0.1466810D-05
28	AUPPOP	0.6260378D+09	0.6260375D+09	0.9946607D+04	-0.4613906D-01
29	VUTGAPAD	0.7851396D+09	0.7851392D+09	0.1247445D+05	-0.5786488D-01
30	PPAS	-0.1660297D+10	-0.1660296D+10	-0.2637911D+05	0.1223641D+00
31	SURPOL	-0.9655752D+07	-0.9655747D+07	-0.1534124D+03	0.7116300D-03
32	TW822	0.2271750D+08	0.2271749D+08	0.3609400D+03	-0.1674282D-02
33	PERPA	0.9953397D+08	0.9953392D+08	0.1581414D+04	-0.7335665D-02
34	PRCHOM	-0.9141266D+09	-0.9141261D+09	-0.1452382D+05	0.6737123D-01
35	PRFEVM	-0.8077665D+10	-0.8077660D+10	-0.1283395D+06	0.5953248D+00
36	PRMED	-0.7104844D+07	-0.7104840D+07	-0.1128831D+03	0.5236278D-03
37	PRALT	-0.1025805D+08	-0.1025804D+08	-0.1629818D+03	0.7560194D-03
38	EIQP	-0.7391673D+05	-0.7391669D+05	-0.1174403D+01	0.5447671D-05
39	RSIDPQPE	0.4714373D+05	0.4714371D+05	0.7490285D+00	-0.3474498D-05
40	LIVMADPE	0.8743751D+04	0.8743746D+04	0.1389224D+00	-0.6444154D-06
41	WD	0.4096354D+07	0.4096352D+07	0.6508365D+02	-0.3019018D-03
42	SAT	-0.4910265D+07	-0.4910262D+07	-0.7801522D+02	0.3618871D-03
43	SHD	-0.5924418D+07	-0.5924415D+07	-0.9412827D+02	0.4366303D-03
44	constant	-0.1134435D+11	-0.1134434D+11	-0.1802411D+06	0.8360797D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.6294D+05	-0.1357D+11
SIGMA(y)	0.1589D-04	0.1000D+01	-0.2156D+06
GAMMA(y)	-0.7370D-10	-0.4639D-05	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2271D+04	0.3326D+00
SIGMA(y)	0.4403D-03	0.1000D+01	0.1465D-03
GAMMA(y)	0.3007D+01	0.6828D+04	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	MOCYPAD	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ
MOCYPAD		0.1000D+01	0.1399D+01	-0.1021D+00	-0.6606D-01	0.1881D+00	-0.4578D+00	-0.5914D-01	0.1203D-01	0.2372D-01	0.1056D-02
DISCEIN		0.7146D+00	0.1000D+01	-0.7294D-01	-0.4721D-01	0.1344D+00	-0.3272D+00	-0.4226D-01	0.8594D-02	0.1695D-01	0.7550D-03
LVCEI		-0.9798D+01	-0.1371D+02	0.1000D+01	0.6473D+00	-0.1843D+01	0.4486D+01	0.5795D+00	-0.1178D+00	-0.2324D+00	-0.1035D-01
P08PC		-0.1514D+02	-0.2118D+02	0.1545D+01	0.1000D+01	-0.2847D+01	0.6931D+01	0.8953D+00	-0.1820D+00	-0.3591D+00	-0.1599D-01
PTDEM		0.5317D+01	0.7440D+01	-0.5426D+00	-0.3512D+00	0.1000D+01	-0.2434D+01	-0.3144D+00	0.6394D-01	0.1261D+00	0.5617D-02

NCROUT04	-0.2184D+01	-0.3056D+01	0.2229D+00	0.1443D+00	-0.4108D+00	0.1000D+01	0.1292D+00	-0.2627D-01	-0.5181D-01	-0.2308D-02
GRPOL	-0.1691D+02	-0.2366D+02	0.1726D+01	0.1117D+01	-0.3180D+01	0.7742D+01	0.1000D+01	-0.2033D+00	-0.4011D+00	-0.1786D-01
STR813	0.8315D+02	0.1164D+03	-0.8487D+01	-0.5493D+01	0.1564D+02	-0.3807D+02	-0.4918D+01	0.1000D+01	0.1972D+01	0.8785D-01
STRP	0.4216D+02	0.5900D+02	-0.4303D+01	-0.2785D+01	0.7930D+01	-0.1930D+02	-0.2493D+01	0.5070D+00	0.1000D+01	0.4454D-01
STRCUQ	0.9465D+03	0.1325D+04	-0.9660D+02	-0.6253D+02	0.1780D+03	-0.4334D+03	-0.5598D+02	0.1138D+02	0.2245D+02	0.1000D+01
GRVOY	0.2799D+03	0.3916D+03	-0.2856D+02	-0.1849D+02	0.5264D+02	-0.1281D+03	-0.1655D+02	0.3366D+01	0.6638D+01	0.2957D+00
AUTPKRP	0.4649D+00	0.6505D+00	-0.4745D-01	-0.3071D-01	0.8743D-01	-0.2128D+00	-0.2749D-01	0.5591D-02	0.1103D-01	0.4911D-03
GRMUMH	0.2008D+04	0.2810D+04	-0.2050D+03	-0.1327D+03	0.3777D+03	-0.9194D+03	-0.1188D+03	0.2415D+02	0.4763D+02	0.2122D+01
TLK822	0.1500D+04	0.2098D+04	-0.1531D+03	-0.9907D+02	0.2821D+03	-0.6866D+03	-0.8869D+02	0.1804D+02	0.3557D+02	0.1584D+01
RFK822	-0.2315D+02	-0.3239D+02	0.2362D+01	0.1529D+01	-0.4353D+01	0.1060D+02	0.1369D+01	-0.2784D+00	-0.5490D+00	-0.2445D-01
SFK822	0.1006D+03	0.1408D+03	-0.1027D+02	-0.6645D+01	0.1892D+02	-0.4605D+02	-0.5949D+01	0.1210D+01	0.2386D+01	0.1063D+00
CSFMR822	-0.2329D+03	-0.3259D+03	0.2377D+02	0.1539D+02	-0.4381D+02	0.1066D+03	0.1378D+02	-0.2801D+01	-0.5525D+01	-0.2461D+00
LOIIND61	0.5944D+01	0.8317D+01	-0.6066D+00	-0.3926D+00	0.1118D+01	-0.2721D+01	-0.3515D+00	0.7148D-01	0.1410D+00	0.6280D-02
LOIAS	0.6160D+01	0.8620D+01	-0.6287D+00	-0.4069D+00	0.1159D+01	-0.2820D+01	-0.3643D+00	0.7408D-01	0.1461D+00	0.6508D-02
MOP62	0.1297D+02	0.1815D+02	-0.1324D+01	-0.8569D+00	0.2440D+01	-0.5939D+01	-0.7671D+00	0.1560D+00	0.3077D+00	0.1370D-01
VWMD	0.3650D+02	0.5107D+02	-0.3725D+01	-0.2411D+01	0.6865D+01	-0.1671D+02	-0.2159D+01	0.4389D+00	0.8657D+00	0.3856D-01
EX7	0.2487D+08	0.3480D+08	-0.2538D+07	-0.1643D+07	0.4677D+07	-0.1139D+08	-0.1471D+07	0.2991D+06	0.5899D+06	0.2627D+05
JO	-0.1850D+02	-0.2589D+02	0.1889D+01	0.1222D+01	-0.3480D+01	0.8472D+01	0.1094D+01	-0.2225D+00	-0.4389D+00	-0.1955D-01
PGRPKM	-0.3419D-01	-0.4784D-01	0.3489D-02	0.2259D-02	-0.6430D-02	0.1565D-01	0.2022D-02	-0.4112D-03	-0.8109D-03	-0.3612D-04
ENTRNMDC	0.6945D+02	0.9718D+02	-0.7088D+01	-0.4588D+01	0.1306D+02	-0.3180D+02	-0.4107D+01	0.8352D+00	0.1647D+01	0.7337D-01
FAD822	0.2705D+00	0.3786D+00	-0.2761D-01	-0.1787D-01	0.5088D-01	-0.1239D+00	-0.1600D-01	0.3254D-02	0.6417D-02	0.2858D-03
PCBNETT	0.4498D+04	0.6294D+04	-0.4591D+03	-0.2971D+03	0.8460D+03	-0.2059D+04	-0.2660D+03	0.5409D+02	0.1067D+03	0.4752D+01
AUPPOP	0.1430D+00	0.2001D+00	-0.1459D-01	-0.9446D-02	0.2689D-01	-0.6547D-01	-0.8457D-02	0.1720D-02	0.3392D-02	0.1511D-03
VUTGAPAD	0.1140D+00	0.1595D+00	-0.1164D-01	-0.7532D-02	0.2144D-01	-0.5220D-01	-0.6743D-02	0.1371D-02	0.2704D-02	0.1205D-03
PPAS	-0.5392D-01	-0.7545D-01	0.5503D-02	0.3562D-02	-0.1014D-01	0.2469D-01	0.3189D-02	-0.6484D-03	-0.1279D-02	-0.5696D-04
SURPOL	-0.9271D+01	-0.1297D+02	0.9462D+00	0.6124D+00	-0.1744D+01	0.4245D+01	0.5483D+00	-0.1115D+00	-0.2199D+00	-0.9795D-02
TW822	0.3941D+01	0.5514D+01	-0.4022D+00	-0.2603D+00	0.7412D+00	-0.1804D+01	-0.2330D+00	0.4739D-01	0.9347D-01	0.4163D-02
PERPA	0.8994D+00	0.1259D+01	-0.9179D-01	-0.5941D-01	0.1692D+00	-0.4118D+00	-0.5319D-01	0.1082D-01	0.2133D-01	0.9502D-03
PRCHOM	-0.9793D-01	-0.1370D+00	0.9995D-02	0.6469D-02	-0.1842D-01	0.4484D-01	0.5792D-02	-0.1178D-02	-0.2323D-02	-0.1035D-03
PRFEVM	-0.1108D-01	-0.1551D-01	0.1131D-02	0.7321D-03	-0.2084D-02	0.5074D-02	0.6554D-03	-0.1333D-03	-0.2629D-03	-0.1171D-04
PRMED	-0.1260D+02	-0.1763D+02	0.1286D+01	0.8323D+00	-0.2370D+01	0.5769D+01	0.7452D+00	-0.1515D+00	-0.2989D+00	-0.1331D-01
PRALT	-0.8727D+01	-0.1221D+02	0.8907D+00	0.5765D+00	-0.1641D+01	0.3995D+01	0.5161D+00	-0.1050D+00	-0.2070D+00	-0.9220D-02
EIQP	-0.1211D+04	-0.1695D+04	0.1236D+03	0.8000D+02	-0.2278D+03	0.5545D+03	0.7162D+02	-0.1456D+02	-0.2873D+02	-0.1279D+01
RSIDPQPE	0.1899D+04	0.2657D+04	-0.1938D+03	-0.1254D+03	0.3571D+03	-0.8694D+03	-0.1123D+03	0.2284D+02	0.4504D+02	0.2006D+01
LIVMADPE	0.1024D+05	0.1433D+05	-0.1045D+04	-0.6763D+03	0.1926D+04	-0.4687D+04	-0.6055D+03	0.1231D+03	0.2428D+03	0.1082D+02
WD	0.2185D+02	0.3058D+02	-0.2230D+01	-0.1444D+01	0.4110D+01	-0.1001D+02	-0.1292D+01	0.2628D+00	0.5183D+00	0.2309D-01
SAT	-0.1823D+02	-0.2551D+02	0.1861D+01	0.1204D+01	-0.3429D+01	0.8347D+01	0.1078D+01	-0.2193D+00	-0.4324D+00	-0.1926D-01
SHD	-0.1511D+02	-0.2114D+02	0.1542D+01	0.9982D+00	-0.2842D+01	0.6918D+01	0.8936D+00	-0.1817D+00	-0.3584D+00	-0.1596D-01
constant	-0.7891D-02	-0.1104D-01	0.8054D-03	0.5213D-03	-0.1484D-02	0.3613D-02	0.4667D-03	-0.9490D-04	-0.1872D-03	-0.8337D-05
=====										
X(k)	GRVOY	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62
=====										
X(1)										
=====										
MOCYPAD	0.3573D-02	0.2151D+01	0.4980D-03	0.6668D-03	-0.4320D-01	0.9942D-02	-0.4293D-02	0.1682D+00	0.1623D+00	0.7709D-01
DISCEIN	0.2554D-02	0.1537D+01	0.3559D-03	0.4765D-03	-0.3087D-01	0.7105D-02	-0.3068D-02	0.1202D+00	0.1160D+00	0.5509D-01
LVCEI	-0.3501D-01	-0.2108D+02	-0.4879D-02	-0.6534D-02	0.4233D+00	-0.9741D-01	0.4207D-01	-0.1648D+01	-0.1591D+01	-0.7554D+00
P08PC	-0.5409D-01	-0.3256D+02	-0.7538D-02	-0.1009D-01	0.6540D+00	-0.1505D+00	0.6499D-01	-0.2547D+01	-0.2457D+01	-0.1167D+01
PTDEM	0.1900D-01	0.1144D+02	0.2648D-02	0.3545D-02	-0.2297D+00	0.5286D-01	-0.2283D-01	0.8945D+00	0.8631D+00	0.4099D+00
NCROUT04	-0.7804D-02	-0.4698D+01	-0.1088D-02	-0.1456D-02	0.9436D-01	-0.2171D-01	0.9377D-02	-0.3675D+00	-0.3546D+00	-0.1684D+00
GRPOL	-0.6042D-01	-0.3637D+02	-0.8420D-02	-0.1128D-01	0.7305D+00	-0.1681D+00	0.7259D-01	-0.2845D+01	-0.2745D+01	-0.1304D+01
STR813	0.2971D+00	0.1789D+03	0.4141D-01	0.5545D-01	-0.3592D+01	0.8267D+00	-0.3570D+00	0.1399D+02	0.1350D+02	0.6410D+01
STRP	0.1506D+00	0.9069D+02	0.2099D-01	0.2811D-01	-0.1821D+01	0.4191D+00	-0.1810D+00	0.7093D+01	0.6844D+01	0.3250D+01

STRCUQ	0.3382D+01	0.2036D+04	0.4713D+00	0.6312D+00	-0.4089D+02	0.9410D+01	-0.4064D+01	0.1592D+03	0.1537D+03	0.7297D+02	
GRVOY	0.1000D+01	0.6020D+03	0.1394D+00	0.1866D+00	-0.1209D+02	0.2782D+01	-0.1202D+01	0.4708D+02	0.4543D+02	0.2158D+02	
AUTPKRP	0.1661D-02	0.1000D+01	0.2315D-03	0.3100D-03	-0.2008D-01	0.4622D-02	-0.1996D-02	0.7821D-01	0.7547D-01	0.3584D-01	
GRMUMH	0.7176D+01	0.4320D+04	0.1000D+01	0.1339D+01	-0.8676D+02	0.1996D+02	-0.8622D+01	0.3379D+03	0.3260D+03	0.1548D+03	
TLK822	0.5359D+01	0.3226D+04	0.7468D+00	0.1000D+01	-0.6479D+02	0.1491D+02	-0.6438D+01	0.2523D+03	0.2435D+03	0.1156D+03	
RFK822	-0.8271D-01	-0.4979D+02	-0.1153D-01	-0.1543D-01	0.1000D+01	-0.2301D+00	0.9937D-01	-0.3894D+01	-0.3758D+01	-0.1784D+01	
SFK822	0.3594D+00	0.2164D+03	0.5009D-01	0.6707D-01	-0.4346D+01	0.1000D+01	-0.4319D+00	0.1692D+02	0.1633D+02	0.7755D+01	
CSFMR822	-0.8323D+00	-0.5010D+03	-0.1160D+00	-0.1553D+00	0.1006D+02	-0.2316D+01	0.1000D+01	-0.3919D+02	-0.3781D+02	-0.1796D+02	
LOIIND61	0.2124D-01	0.1279D+02	0.2960D-02	0.3963D-02	-0.2568D+00	0.5909D-01	-0.2552D-01	0.1000D+01	0.9649D+00	0.4582D+00	
LOIAS	0.2201D-01	0.1325D+02	0.3067D-02	0.4107D-02	-0.2661D+00	0.6124D-01	-0.2645D-01	0.1036D+01	0.1000D+01	0.4749D+00	
MOP62	0.4635D-01	0.2790D+02	0.6459D-02	0.8650D-02	-0.5604D+00	0.1290D+00	-0.5569D-01	0.2182D+01	0.2106D+01	0.1000D+01	
VWMD	0.1304D+00	0.7851D+02	0.1818D-01	0.2434D-01	-0.1577D+01	0.3629D+00	-0.1567D+00	0.6141D+01	0.5925D+01	0.2814D+01	
EX7	0.8886D+05	0.5350D+08	0.1238D+05	0.1658D+05	-0.1074D+07	0.2472D+06	-0.1068D+06	0.4184D+07	0.4037D+07	0.1917D+07	
JO	-0.6612D-01	-0.3980D+02	-0.9214D-02	-0.1234D-01	0.7994D+00	-0.1840D+00	0.7944D-01	-0.3113D+01	-0.3004D+01	-0.1427D+01	
PGRPKM	-0.1222D-03	-0.7355D-01	-0.1703D-04	-0.2280D-04	0.1477D-02	-0.3399D-03	0.1468D-03	-0.5752D-02	-0.5550D-02	-0.2636D-02	
ENTRNMDC	0.2481D+00	0.1494D+03	0.3458D-01	0.4631D-01	-0.3000D+01	0.6904D+00	-0.2982D+00	0.1168D+02	0.1127D+02	0.5354D+01	
FAD822	0.9667D-03	0.5820D+00	0.1347D-03	0.1804D-03	-0.1169D-01	0.2690D-02	-0.1161D-02	0.4552D-01	0.4392D-01	0.2086D-01	
PCBNETT	0.1607D+02	0.9676D+04	0.2240D+01	0.2999D+01	-0.1943D+03	0.4472D+02	-0.1931D+02	0.7567D+03	0.7302D+03	0.3468D+03	
AUPPOP	0.5109D-03	0.3076D+00	0.7121D-04	0.9535D-04	-0.6178D-02	0.1422D-02	-0.6139D-03	0.2406D-01	0.2321D-01	0.1102D-01	
VUTGAPAD	0.4074D-03	0.2453D+00	0.5678D-04	0.7603D-04	-0.4926D-02	0.1134D-02	-0.4895D-03	0.1918D-01	0.1851D-01	0.8790D-02	
PPAS	-0.1927D-03	-0.1160D+00	-0.2685D-04	-0.3595D-04	0.2329D-02	-0.5360D-03	0.2315D-03	-0.9071D-02	-0.8753D-02	-0.4157D-02	
SURPOL	-0.3313D-01	-0.1994D+02	-0.4617D-02	-0.6182D-02	0.4005D+00	-0.9217D-01	0.3980D-01	-0.1560D+01	-0.1505D+01	-0.7147D+00	
TW822	0.1408D-01	0.8477D+01	0.1962D-02	0.2628D-02	-0.1702D+00	0.3918D-01	-0.1692D-01	0.6630D+00	0.6397D+00	0.3038D+00	
PERPA	0.3214D-02	0.1935D+01	0.4479D-03	0.5997D-03	-0.3886D-01	0.8941D-02	-0.3861D-02	0.1513D+00	0.1460D+00	0.6934D-01	
PRCHOM	-0.3499D-03	-0.2107D+00	-0.4877D-04	-0.6530D-04	0.4231D-02	-0.9736D-03	0.4204D-03	-0.1648D-01	-0.1590D-01	-0.7550D-02	
PRFEVM	-0.3960D-04	-0.2384D-01	-0.5519D-05	-0.7390D-05	0.4788D-03	-0.1102D-03	0.4758D-04	-0.1865D-02	-0.1799D-02	-0.8544D-03	
PRMED	-0.4502D-01	-0.2710D+02	-0.6274D-02	-0.8402D-02	0.5444D+00	-0.1253D+00	0.5409D-01	-0.2120D+01	-0.2045D+01	-0.9713D+00	
PRALT	-0.3118D-01	-0.1877D+02	-0.4346D-02	-0.5819D-02	0.3770D+00	-0.8676D-01	0.3747D-01	-0.1468D+01	-0.1417D+01	-0.6728D+00	
EIQP	-0.4327D+01	-0.2605D+04	-0.6031D+00	-0.8076D+00	0.5232D+02	-0.1204D+02	0.5200D+01	-0.2038D+03	-0.1966D+03	-0.9337D+02	
RSIDPQPE	0.6785D+01	0.4085D+04	0.9456D+00	0.1266D+01	-0.8204D+02	0.1888D+02	-0.8152D+01	0.3195D+03	0.3083D+03	0.1464D+03	
LIVMADPE	0.3658D+02	0.2202D+05	0.5098D+01	0.6827D+01	-0.4423D+03	0.1018D+03	-0.4396D+02	0.1722D+04	0.1662D+04	0.7893D+03	
WD	0.7809D-01	0.4701D+02	0.1088D-01	0.1457D-01	-0.9442D+00	0.2173D+00	-0.9382D-01	0.3677D+01	0.3548D+01	0.1685D+01	
SAT	-0.6514D-01	-0.3922D+02	-0.9079D-02	-0.1216D-01	0.7877D+00	-0.1812D+00	0.7827D-01	-0.3067D+01	-0.2960D+01	-0.1405D+01	
SHD	-0.5399D-01	-0.3250D+02	-0.7524D-02	-0.1008D-01	0.6528D+00	-0.1502D+00	0.6487D-01	-0.2542D+01	-0.2453D+01	-0.1165D+01	
constant	-0.2820D-04	-0.1697D-01	-0.3930D-05	-0.5262D-05	0.3409D-03	-0.7845D-04	0.3388D-04	-0.1328D-02	-0.1281D-02	-0.6083D-03	
=====											
X (1)	X (k)	VWMD	EX7	JO	PGRPKM	ENTRNMDC	FAD822	PCBNETT	AUPPOP	VUTGAPAD	PPAS
=====											
MOCYPAD	0.2740D-01	0.4021D-07	-0.5404D-01	-0.2925D+02	0.1440D-01	0.3696D+01	0.2223D-03	0.6993D+01	0.8771D+01	-0.1855D+02	
DISCEIN	0.1958D-01	0.2874D-07	-0.3862D-01	-0.2090D+02	0.1029D-01	0.2642D+01	0.1589D-03	0.4998D+01	0.6268D+01	-0.1325D+02	
LVCEI	-0.2685D+00	-0.3940D-06	0.5295D+00	0.2866D+03	-0.1411D+00	-0.3622D+02	-0.2178D-02	-0.6852D+02	-0.8593D+02	0.1817D+03	
P08PC	-0.4148D+00	-0.6087D-06	0.8181D+00	0.4428D+03	-0.2180D+00	-0.5595D+02	-0.3365D-02	-0.1059D+03	-0.1328D+03	0.2808D+03	
PTDEM	0.1457D+00	0.2138D-06	-0.2873D+00	-0.1555D+03	0.7656D-01	0.1965D+02	0.1182D-02	0.3718D+02	0.4663D+02	-0.9861D+02	
NCROUT04	-0.5984D-01	-0.8783D-07	0.1180D+00	0.6388D+02	-0.3145D-01	-0.8073D+01	-0.4856D-03	-0.1527D+02	-0.1916D+02	0.4051D+02	
GRPOL	-0.4633D+00	-0.6799D-06	0.9138D+00	0.4946D+03	-0.2435D+00	-0.6250D+02	-0.3759D-02	-0.1182D+03	-0.1483D+03	0.3136D+03	
STR813	0.2278D+01	0.3344D-05	-0.4494D+01	-0.2432D+04	0.1197D+01	0.3074D+03	0.1849D-01	0.5815D+03	0.7293D+03	-0.1542D+04	
STRP	0.1155D+01	0.1695D-05	-0.2278D+01	-0.1233D+04	0.6071D+00	0.1558D+03	0.9373D-02	0.2948D+03	0.3698D+03	-0.7819D+03	
STRCUQ	0.2593D+02	0.3806D-04	-0.5115D+02	-0.2769D+05	0.1363D+02	0.3499D+04	0.2104D+00	0.6619D+04	0.8302D+04	-0.1756D+05	
GRVOY	0.7668D+01	0.1125D-04	-0.1512D+02	-0.8186D+04	0.4030D+01	0.1034D+04	0.6222D-01	0.1957D+04	0.2455D+04	-0.5191D+04	
AUTPKRP	0.1274D-01	0.1869D-07	-0.2512D-01	-0.1360D+02	0.6694D-02	0.1718D+01	0.1034D-03	0.3251D+01	0.4077D+01	-0.8622D+01	
GRMUMH	0.5502D+02	0.8075D-04	-0.1085D+03	-0.5874D+05	0.2892D+02	0.7423D+04	0.4465D+00	0.1404D+05	0.1761D+05	-0.3724D+05	

TLK822	0.4109D+02	0.6030D-04	-0.8104D+02	-0.4386D+05	0.2159D+02	0.5543D+04	0.3334D+00	0.1049D+05	0.1315D+05	-0.2781D+05	
RFK822	-0.6342D+00	-0.9307D-06	0.1251D+01	0.6770D+03	-0.3333D+00	-0.8556D+02	-0.5146D-02	-0.1619D+03	-0.2030D+03	0.4293D+03	
SFK822	0.2756D+01	0.4045D-05	-0.5436D+01	-0.2942D+04	0.1448D+01	0.3718D+03	0.2236D-01	0.7034D+03	0.8822D+03	-0.1866D+04	
CSFMR822	-0.6382D+01	-0.9366D-05	0.1259D+02	0.6813D+04	-0.3354D+01	-0.8610D+03	-0.5178D-01	-0.1629D+04	-0.2043D+04	0.4320D+04	
LOIIND61	0.1629D+00	0.2390D-06	-0.3212D+00	-0.1739D+03	0.8559D-01	0.2197D+02	0.1321D-02	0.4157D+02	0.5213D+02	-0.1102D+03	
LOIAS	0.1688D+00	0.2477D-06	-0.3329D+00	-0.1802D+03	0.8870D-01	0.2277D+02	0.1369D-02	0.4308D+02	0.5403D+02	-0.1142D+03	
MOP62	0.3554D+00	0.5216D-06	-0.7010D+00	-0.3794D+03	0.1868D+00	0.4795D+02	0.2884D-02	0.9071D+02	0.1138D+03	-0.2406D+03	
VWMD	0.1000D+01	0.1468D-05	-0.1972D+01	-0.1068D+04	0.5256D+00	0.1349D+03	0.8115D-02	0.2552D+03	0.3201D+03	-0.6769D+03	
EX7	0.6814D+06	0.1000D+01	-0.1344D+07	-0.7274D+09	0.3581D+06	0.9192D+08	0.5529D+04	0.1739D+09	0.2181D+09	-0.4612D+09	
JO	-0.5070D+00	-0.7441D-06	0.1000D+01	0.5412D+03	-0.2665D+00	-0.6840D+02	-0.4114D-02	-0.1294D+03	-0.1623D+03	0.3432D+03	
PGRPKM	-0.9367D-03	-0.1375D-08	0.1848D-02	0.1000D+01	-0.4923D-03	-0.1264D+00	-0.7601D-05	-0.2391D+00	-0.2999D+00	0.6341D+00	
ENTRNMDC	0.1903D+01	0.2792D-05	-0.3753D+01	-0.2031D+04	0.1000D+01	0.2567D+03	0.1544D-01	0.4857D+03	0.6091D+03	-0.1288D+04	
FAD822	0.7412D-02	0.1088D-07	-0.1462D-01	-0.7913D+01	0.3896D-02	0.1000D+01	0.6015D-04	0.1892D+01	0.2373D+01	-0.5018D+01	
PCBNETT	0.1232D+03	0.1809D-03	-0.2431D+03	-0.1316D+06	0.6477D+02	0.1663D+05	0.1000D+01	0.3146D+05	0.3945D+05	-0.8342D+05	
AUPPOP	0.3918D-02	0.5750D-08	-0.7728D-02	-0.4182D+01	0.2059D-02	0.5286D+00	0.3179D-04	0.1000D+01	0.1254D+01	-0.2652D+01	
VUTGAPAD	0.3124D-02	0.4585D-08	-0.6162D-02	-0.3335D+01	0.1642D-02	0.4215D+00	0.2535D-04	0.7974D+00	0.1000D+01	-0.2115D+01	
PPAS	-0.1477D-02	-0.2168D-08	0.2914D-02	0.1577D+01	-0.7764D-03	-0.1993D+00	-0.1199D-04	-0.3771D+00	-0.4729D+00	0.1000D+01	
SURPOL	-0.2540D+00	-0.3728D-06	0.5010D+00	0.2712D+03	-0.1335D+00	-0.3427D+02	-0.2061D-02	-0.6484D+02	-0.8131D+02	0.1719D+03	
TW822	0.1080D+00	0.1585D-06	-0.2130D+00	-0.1153D+03	0.5674D-01	0.1457D+02	0.8761D-03	0.2756D+02	0.3456D+02	-0.7308D+02	
PERPA	0.2464D-01	0.3617D-07	-0.4860D-01	-0.2631D+02	0.1295D-01	0.3324D+01	0.2000D-03	0.6290D+01	0.7888D+01	-0.1668D+02	
PRCHOM	-0.2683D-02	-0.3938D-08	0.5292D-02	0.2864D+01	-0.1410D-02	-0.3620D+00	-0.2177D-04	-0.6848D+00	-0.8589D+00	0.1816D+01	
PRFEVM	-0.3036D-03	-0.4456D-09	0.5989D-03	0.3241D+00	-0.1596D-03	-0.4096D-01	-0.2464D-05	-0.7750D-01	-0.9720D-01	0.2055D+00	
PRMED	-0.3452D+00	-0.5066D-06	0.6809D+00	0.3685D+03	-0.1814D+00	-0.4657D+02	-0.2801D-02	-0.8811D+02	-0.1105D+03	0.2337D+03	
PRALT	-0.2391D+00	-0.3509D-06	0.4716D+00	0.2552D+03	-0.1257D+00	-0.3226D+02	-0.1940D-02	-0.6103D+02	-0.7654D+02	0.1619D+03	
EIQP	-0.3318D+02	-0.4870D-04	0.6545D+02	0.3542D+05	-0.1744D+02	-0.4477D+04	-0.2693D+00	-0.8470D+04	-0.1062D+05	0.2246D+05	
RSIDPQPE	0.5203D+02	0.7635D-04	-0.1026D+03	-0.5554D+05	0.2734D+02	0.7019D+04	0.4222D+00	0.1328D+05	0.1665D+05	-0.3522D+05	
LIVMADPE	0.2805D+03	0.4117D-03	-0.5533D+03	-0.2995D+06	0.1474D+03	0.3784D+05	0.2276D+01	0.7160D+05	0.8979D+05	-0.1899D+06	
WD	0.5988D+00	0.8787D-06	-0.1181D+01	-0.6392D+03	0.3147D+00	0.8078D+02	0.4859D-02	0.1528D+03	0.1917D+03	-0.4053D+03	
SAT	-0.4995D+00	-0.7331D-06	0.9852D+00	0.5332D+03	-0.2625D+00	-0.6739D+02	-0.4053D-02	-0.1275D+03	-0.1599D+03	0.3381D+03	
SHD	-0.4140D+00	-0.6076D-06	0.8166D+00	0.4420D+03	-0.2176D+00	-0.5585D+02	-0.3359D-02	-0.1057D+03	-0.1325D+03	0.2802D+03	
constant	-0.2162D-03	-0.3173D-09	0.4265D-03	0.2308D+00	-0.1136D-03	-0.2917D-01	-0.1754D-05	-0.5518D-01	-0.6921D-01	0.1464D+00	
=====											
X(1)	X(k)	SURPOL	TW822	PERPA	PRCHOM	PRFEVM	PRMED	PRALT	EIQP	RSIDPQPE	LIVMADPE
=====											
MOCYPAD	-0.1079D+00	0.2538D+00	0.1112D+01	-0.1021D+02	-0.9023D+02	-0.7937D-01	-0.1146D+00	-0.8257D-03	0.5266D-03	0.9767D-04	
DISCEIN	-0.7708D-01	0.1814D+00	0.7946D+00	-0.7297D+01	-0.6448D+02	-0.5672D-01	-0.8189D-01	-0.5901D-03	0.3763D-03	0.6980D-04	
LVCEI	0.1057D+01	-0.2486D+01	-0.1089D+02	0.1001D+03	0.8841D+03	0.7776D+00	0.1123D+01	0.8090D-02	-0.5160D-02	-0.9570D-03	
P08PC	0.1633D+01	-0.3842D+01	-0.1683D+02	0.1546D+03	0.1366D+04	0.1201D+01	0.1735D+01	0.1250D-01	-0.7972D-02	-0.1479D-02	
PTDEM	-0.5735D+00	0.1349D+01	0.5912D+01	-0.5429D+02	-0.4798D+03	-0.4220D+00	-0.6093D+00	-0.4390D-02	0.2800D-02	0.5193D-03	
NCROUT04	0.2356D+00	-0.5543D+00	-0.2428D+01	0.2230D+02	0.1971D+03	0.1733D+00	0.2503D+00	0.1803D-02	-0.1150D-02	-0.2133D-03	
GRPOL	0.1824D+01	-0.4291D+01	-0.1880D+02	0.1727D+03	0.1526D+04	0.1342D+01	0.1938D+01	0.1396D-01	-0.8905D-02	-0.1652D-02	
STR813	-0.8969D+01	0.2110D+02	0.9245D+02	-0.8491D+03	-0.7503D+04	-0.6599D+01	-0.9528D+01	-0.6866D-01	0.4379D-01	0.8122D-02	
STRP	-0.4547D+01	0.1070D+02	0.4688D+02	-0.4305D+03	-0.3804D+04	-0.3346D+01	-0.4831D+01	-0.3481D-01	0.2220D-01	0.4118D-02	
STRCUQ	-0.1021D+03	0.2402D+03	0.1052D+04	-0.9666D+04	-0.8541D+05	-0.7512D+02	-0.1085D+03	-0.7816D+00	0.4985D+00	0.9245D-01	
GRVOY	-0.3019D+02	0.7102D+02	0.3112D+03	-0.2858D+04	-0.2525D+05	-0.2221D+02	-0.3207D+02	-0.2311D+00	0.1474D+00	0.2734D-01	
AUTPKRP	-0.5014D-01	0.1180D+00	0.5169D+00	-0.4747D+01	-0.4195D+02	-0.3690D-01	-0.5327D-01	-0.3838D-03	0.2448D-03	0.4541D-04	
GRMUMH	-0.2166D+03	0.5096D+03	0.2233D+04	-0.2051D+05	-0.1812D+06	-0.1594D+03	-0.2301D+03	-0.1658D+01	0.1058D+01	0.1961D+00	
TLK822	-0.1618D+03	0.3806D+03	0.1667D+04	-0.1531D+05	-0.1353D+06	-0.1190D+03	-0.1718D+03	-0.1238D+01	0.7898D+00	0.1465D+00	
RFK822	0.2497D+01	-0.5874D+01	-0.2574D+02	0.2364D+03	0.2089D+04	0.1837D+01	0.2652D+01	0.1911D-01	-0.1219D-01	-0.2261D-02	
SFK822	-0.1085D+02	0.2553D+02	0.1118D+03	-0.1027D+04	-0.9076D+04	-0.7983D+01	-0.1153D+02	-0.8306D-01	0.5297D-01	0.9825D-02	
CSFMR822	0.2512D+02	-0.5911D+02	-0.2590D+03	0.2378D+04	0.2102D+05	0.1849D+02	0.2669D+02	0.1923D+00	-0.1227D+00	-0.2275D-01	

LOIIND61	-0.6411D+00	0.1508D+01	0.6609D+01	-0.6070D+02	-0.5363D+03	-0.4717D+00	-0.6811D+00	-0.4908D-02	0.3130D-02	0.5806D-03					
LOIAS	-0.6644D+00	0.1563D+01	0.6849D+01	-0.6290D+02	-0.5558D+03	-0.4889D+00	-0.7059D+00	-0.5086D-02	0.3244D-02	0.6017D-03					
MOP62	-0.1399D+01	0.3292D+01	0.1442D+02	-0.1325D+03	-0.1170D+04	-0.1029D+01	-0.1486D+01	-0.1071D-01	0.6831D-02	0.1267D-02					
VWMD	-0.3937D+01	0.9262D+01	0.4058D+02	-0.3727D+03	-0.3293D+04	-0.2897D+01	-0.4182D+01	-0.3014D-01	0.1922D-01	0.3565D-02					
EX7	-0.2682D+07	0.6311D+07	0.2765D+08	-0.2539D+09	-0.2244D+10	-0.1974D+07	-0.2850D+07	-0.2053D+05	0.1310D+05	0.2429D+04					
JO	0.1996D+01	-0.4696D+01	-0.2057D+02	0.1890D+03	0.1670D+04	0.1469D+01	0.2120D+01	0.1528D-01	-0.9745D-02	-0.1807D-02					
PGRPKM	0.3688D-02	-0.8676D-02	-0.3801D-01	0.3491D+00	0.3085D+01	0.2713D-02	0.3918D-02	0.2823D-04	-0.1801D-04	-0.3339D-05					
ENTRNMDC	-0.7491D+01	0.1762D+02	0.7721D+02	-0.7091D+03	-0.6266D+04	-0.5512D+01	-0.7958D+01	-0.5734D-01	0.3657D-01	0.6783D-02					
FAD822	-0.2918D-01	0.6865D-01	0.3008D+00	-0.2763D+01	-0.2441D+02	-0.2147D-01	-0.3100D-01	-0.2234D-03	0.1425D-03	0.2642D-04					
PCBNETT	-0.4852D+03	0.1141D+04	0.5001D+04	-0.4593D+05	-0.4059D+06	-0.3570D+03	-0.5154D+03	-0.3714D+01	0.2369D+01	0.4393D+00					
AUPPOP	-0.1542D-01	0.3629D-01	0.1590D+00	-0.1460D+01	-0.1290D+02	-0.1135D-01	-0.1639D-01	-0.1181D-03	0.7530D-04	0.1397D-04					
VUTGAPAD	-0.1230D-01	0.2893D-01	0.1268D+00	-0.1164D+01	-0.1029D+02	-0.9049D-02	-0.1307D-01	-0.9414D-04	0.6005D-04	0.1114D-04					
PPAS	0.5816D-02	-0.1368D-01	-0.5995D-01	0.5506D+00	0.4865D+01	0.4279D-02	0.6178D-02	0.4452D-04	-0.2839D-04	-0.5266D-05					
SURPOL	0.1000D+01	-0.2353D+01	-0.1031D+02	0.9467D+02	0.8366D+03	0.7358D+00	0.1062D+01	0.7655D-02	-0.4882D-02	-0.9055D-03					
TW822	-0.4250D+00	0.1000D+01	0.4381D+01	-0.4024D+02	-0.3556D+03	-0.3127D+00	-0.4515D+00	-0.3254D-02	0.2075D-02	0.3849D-03					
PERPA	-0.9701D-01	0.2282D+00	0.1000D+01	-0.9184D+01	-0.8115D+02	-0.7138D-01	-0.1031D+00	-0.7426D-03	0.4736D-03	0.8785D-04					
PRCHOM	0.1056D-01	-0.2485D-01	-0.1089D+00	0.1000D+01	0.8836D+01	0.7772D-02	0.1122D-01	0.8086D-04	-0.5157D-04	-0.9565D-05					
PRFEVM	0.1195D-02	-0.2812D-02	-0.1232D-01	0.1132D+00	0.1000D+01	0.8796D-03	0.1270D-02	0.9151D-05	-0.5836D-05	-0.1082D-05					
PRMED	0.1359D+01	-0.3197D+01	-0.1401D+02	0.1287D+03	0.1137D+04	0.1000D+01	0.1444D+01	0.1040D-01	-0.6635D-02	-0.1231D-02					
PRALT	0.9413D+00	-0.2215D+01	-0.9703D+01	0.8911D+02	0.7874D+03	0.6926D+00	0.1000D+01	0.7206D-02	-0.4596D-02	-0.8524D-03					
EIQP	0.1306D+03	-0.3073D+03	-0.1347D+04	0.1237D+05	0.1093D+06	0.9612D+02	0.1388D+03	0.1000D+01	-0.6378D+00	-0.1183D+00					
RSIDPQPE	-0.2048D+03	0.4819D+03	0.2111D+04	-0.1939D+05	-0.1713D+06	-0.1507D+03	-0.2176D+03	-0.1568D+01	0.1000D+01	0.1855D+00					
LIVMADPE	-0.1104D+04	0.2598D+04	0.1138D+05	-0.1045D+06	-0.9238D+06	-0.8126D+03	-0.1173D+04	-0.8454D+01	0.5392D+01	0.1000D+01					
WD	-0.2357D+01	0.5546D+01	0.2430D+02	-0.2232D+03	-0.1972D+04	-0.1734D+01	-0.2504D+01	-0.1804D-01	0.1151D-01	0.2135D-02					
SAT	0.1966D+01	-0.4627D+01	-0.2027D+02	0.1862D+03	0.1645D+04	0.1447D+01	0.2089D+01	0.1505D-01	-0.9601D-02	-0.1781D-02					
SHD	0.1630D+01	-0.3835D+01	-0.1680D+02	0.1543D+03	0.1363D+04	0.1199D+01	0.1731D+01	0.1248D-01	-0.7958D-02	-0.1476D-02					
constant	0.8512D-03	-0.2003D-02	-0.8774D-02	0.8058D-01	0.7120D+00	0.6263D-03	0.9042D-03	0.6516D-05	-0.4156D-05	-0.7708D-06					
=====															
X(1)	X(k)	WD	SAT	SHD	constant										
=====															
MOCYPAD	0.4576D-01	-0.5485D-01	-0.6618D-01	-0.1267D+03											
DISCEIN	0.3270D-01	-0.3920D-01	-0.4729D-01	-0.9056D+02											
LVCEI	-0.4484D+00	0.5374D+00	0.6484D+00	0.1242D+04											
P08PC	-0.6927D+00	0.8303D+00	0.1002D+01	0.1918D+04											
PTDEM	0.2433D+00	-0.2916D+00	-0.3519D+00	-0.6738D+03											
NCROUT04	-0.9995D-01	0.1198D+00	0.1445D+00	0.2768D+03											
GRPOL	-0.7737D+00	0.9275D+00	0.1119D+01	0.2143D+04											
STR813	0.3805D+01	-0.4561D+01	-0.5503D+01	-0.1054D+05											
STRP	0.1929D+01	-0.2313D+01	-0.2790D+01	-0.5343D+04											
STRCUQ	0.4331D+02	-0.5192D+02	-0.6264D+02	-0.1199D+06											
GRVOY	0.1281D+02	-0.1535D+02	-0.1852D+02	-0.3547D+05											
AUTPKRP	0.2127D-01	-0.2550D-01	-0.3077D-01	-0.5891D+02											
GRMUMH	0.9189D+02	-0.1102D+03	-0.1329D+03	-0.2545D+06											
TLK822	0.6862D+02	-0.8226D+02	-0.9925D+02	-0.1900D+06											
RFK822	-0.1059D+01	0.1270D+01	0.1532D+01	0.2933D+04											
SFK822	0.4603D+01	-0.5517D+01	-0.6657D+01	-0.1275D+05											
CSFMR822	-0.1066D+02	0.1278D+02	0.1541D+02	0.2952D+05											
LOIIND61	0.2720D+00	-0.3260D+00	-0.3934D+00	-0.7532D+03											
LOIAS	0.2819D+00	-0.3379D+00	-0.4077D+00	-0.7806D+03											
MOP62	0.5936D+00	-0.7115D+00	-0.8585D+00	-0.1644D+04											
VWMD	0.1670D+01	-0.2002D+01	-0.2415D+01	-0.4625D+04											

EX7	0.1138D+07	-0.1364D+07	-0.1646D+07	-0.3152D+10
JO	-0.8467D+00	0.1015D+01	0.1225D+01	0.2345D+04
PGRPKM	-0.1564D-02	0.1875D-02	0.2263D-02	0.4333D+01
ENTRNMD	0.3178D+01	-0.3809D+01	-0.4596D+01	-0.8801D+04
FAD822	0.1238D-01	-0.1484D-01	-0.1790D-01	-0.3428D+02
PCBNETT	0.2058D+03	-0.2467D+03	-0.2977D+03	-0.5700D+06
AUPPOP	0.6543D-02	-0.7843D-02	-0.9463D-02	-0.1812D+02
VUTGAPAD	0.5217D-02	-0.6254D-02	-0.7546D-02	-0.1445D+02
FPAS	-0.2467D-02	0.2957D-02	0.3568D-02	0.6833D+01
SURPOL	-0.4242D+00	0.5085D+00	0.6136D+00	0.1175D+04
TW822	0.1803D+00	-0.2161D+00	-0.2608D+00	-0.4994D+03
PERPA	0.4116D-01	-0.4933D-01	-0.5952D-01	-0.1140D+03
PRCHOM	-0.4481D-02	0.5372D-02	0.6481D-02	0.1241D+02
PRFEVM	-0.5071D-03	0.6079D-03	0.7334D-03	0.1404D+01
PRMED	-0.5766D+00	0.6911D+00	0.8339D+00	0.1597D+04
PRALT	-0.3993D+00	0.4787D+00	0.5775D+00	0.1106D+04
EIQP	-0.5542D+02	0.6643D+02	0.8015D+02	0.1535D+06
RSIDPQPE	0.8689D+02	-0.1042D+03	-0.1257D+03	-0.2406D+06
LIVMADPE	0.4685D+03	-0.5616D+03	-0.6776D+03	-0.1297D+07
WD	0.1000D+01	-0.1199D+01	-0.1446D+01	-0.2769D+04
SAT	-0.8342D+00	0.1000D+01	0.1207D+01	0.2310D+04
SHD	-0.6914D+00	0.8288D+00	0.1000D+01	0.1915D+04
constant	-0.3611D-03	0.4328D-03	0.5222D-03	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.4958510D+09	0.4958508D+09
STD.ERROR	0.1527333D+09	0.1516785D+09
SKEWNESS	-0.0415509	-0.0559995

E(y) at the means : 0.4958508D+09

Sig(y) at the means : 0.1789208D+08

C.o.V. at the means : 0.0360836

Gam(y) at the means : -0.0121550

Pearson-R2 : 0.9862368

Pearson-R2 bar : 0.9839250

Pseudo-(1)-R2 : 0.9862368

Pseudo-(1)-R2 bar : 0.9839250

Error Variance : 0.3199907D+15

Log-likelihood : -0.5435578D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

3	500	0.1D+01	0.1D-06
0.00000D+00	0.00000D+00	0.10000D+01	
0.10000D+01	0.10000D+01	0.10000D+01	
0.00000D+00	0.00000D+00	0.00000D+00	

first entry to fcn , parameters of current step follow - - f,x(i)
-0.9062572337D+02 0.00000D+00 0.00000D+00 0.10000D+01

new absolute minimum , parameters for fcn entry 5 follow - - f,x(i)
-0.1016300928D+03 0.25104D+00 -0.25494D+00 0.75858D+00

new absolute minimum , parameters for fcn entry 8 follow - - f,x(i)
-0.1025280907D+03 0.21746D+00 -0.24999D+00 0.65380D+00

new absolute minimum , parameters for fcn entry 10 follow - - f,x(i)
-0.1025529916D+03 0.22542D+00 -0.23880D+00 0.64857D+00

```

new absolute minimum , parameters for fcn entry 13 follow - - f,x(i)
-0.1025670189D+03 0.21655D+00 -0.23028D+00 0.65491D+00

new absolute minimum , parameters for fcn entry 15 follow - - f,x(i)
-0.1025670333D+03 0.21639D+00 -0.23028D+00 0.65451D+00

new absolute minimum , parameters for fcn entry 16 follow - - f,x(i)
-0.1025670333D+03 0.21639D+00 -0.23028D+00 0.65451D+00

new absolute minimum , parameters for fcn entry 17 follow - - f,x(i)
-0.1025670333D+03 0.21639D+00 -0.23028D+00 0.65451D+00

new absolute minimum , parameters for fcn entry 18 follow - - f,x(i)
-0.1025670333D+03 0.21639D+00 -0.23028D+00 0.65451D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.1025670333D+03 0.21639D+00 -0.23028D+00 0.65451D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.1025670333D+03 for entry 18 - - x(i) follows
0.21639D+00 -0.23028D+00 0.65451D+00

```

run statistics follow - -

nfcn= 18 nst= 8

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.4958510D+09	0.4958634D+09
STD.ERROR	0.1527333D+09	0.1518325D+09
SKEWNESS	-0.0415509	-0.0506654

E(y) at the means : 0.4889707D+09

Sig(y) at the means : 0.1742138D+08

C.o.V. at the means : 0.0356287

Gam(y) at the means : 0.0242723

Pearson-R2 : 0.9867754

Pearson-R2 bar : 0.9843709

Pseudo-(1)-R2 : 0.9877749

Pseudo-(1)-R2 bar : 0.9855522

Error Variance : 0.3005586D+09

Log-likelihood : -0.5423637D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)	COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
						y(sample)	E(y)	y(sample)	E(y)
	type	group					SIGMA(y)		SIGMA(y)
							GAMMA(y)		GAMMA(y)
						-first obs	14	-first obs	302
						-last obs	313	-last obs	313
1 MOCYPAD	NL	0	0.6721462D+04	-0.5923145D-11	0.1946751D+06	0.0345	0.0002	0.0003	0.0003
					0.1846882D+06	0.0364	0.0001	0.0001	0.0001
							-0.0004	-0.0004	-0.0009
2 DISCEIN	NL	0	0.1564721D+06	-0.2095142D-09	0.3207006D+06	0.4879	0.1473	0.2910	0.2903
					0.6854811D+05	2.2827	0.0509	0.1004	0.1004
							-0.2975	-0.9984	-0.9984
3 LVCEI	NL	0	-0.2332414D+04	-0.1148595D-09	0.1389253D+05	-0.1679	-0.0012	-0.0043	-0.0043
					0.1218047D+05	-0.1915	-0.0004	-0.0015	-0.0015
							0.0025	0.0149	0.0149
4 P08PC	NL	0	0.2294487D+04	-0.2401028D-09	0.1347349D+05	0.1703	0.0024	0.0043	0.0043
					0.1327011D+05	0.1729	0.0009	0.0015	0.0015
							-0.0050	-0.0146	-0.0146
5 PTDEM	NL	0	-0.3175846D+04	-0.1788580D-09	0.1642183D+05	-0.1934	-0.0025	-0.0059	-0.0059
					0.1589222D+05	-0.1998	-0.0009	-0.0020	-0.0020
							0.0052	0.0203	0.0203
6 NCR0UT04	NL	0	-0.2744874D+05	-0.1159164D-10	0.6105028D+05	-0.4496	-0.0017	-0.0383	-0.0382
					0.1796881D+05	-1.5276	-0.0006	-0.0132	-0.0132
							0.0034	0.1314	0.1314
7 GRPOL	NL	0	-0.9725301D+03	-0.4891398D-11	0.1224855D+05	-0.0794	0.0000	0.0000	0.0000
					0.1202740D+05	-0.0809	0.0000	0.0000	0.0000
							0.0000	0.0000	0.0000
8 STR813	NL	0	0.8371025D+03	-0.2180086D-09	0.1786925D+04	0.4685	0.0008	0.0017	0.0017
					0.5928580D+03	1.4120	0.0003	0.0006	0.0006
							-0.0016	-0.0058	-0.0058
9 STRP	NL	0	0.2844514D+04	-0.5604606D-10	0.6115187D+04	0.4652	0.0007	0.0035	0.0035
					0.9625801D+03	2.9551	0.0003	0.0012	0.0012
							-0.0015	-0.0121	-0.0121
10 STRCUQ	NL	0	0.7416474D+02	-0.5992247D-09	0.3172878D+03	0.2337	0.0002	0.0002	0.0002

					0.2921831D+03	0.2538			0.0001		0.0001
									-0.0004		-0.0006
11	GRVOY	NL	0	0.6707872D+02	-0.3634136D-09	0.3322798D+03	0.2019	0.0001	0.0001	0.0000	0.0000
						0.3032695D+03	0.2212		0.0000		0.0000
									-0.0002		0.0000
12	AUTPKRP	NL	0	0.1232812D+06	-0.1500286D-09	0.2874927D+06	0.4288	0.0816	0.0824	0.1178	0.1175
						0.7826835D+05	1.5751		0.0285		0.0407
									-0.1664		-0.4042
13	GRMUMH	NL	0	0.7635471D+03	-0.7903219D-10	0.2176602D+04	0.3508	0.0003	0.0003	0.0000	0.0000
						0.1432960D+04	0.5328		0.0001		0.0000
									-0.0005		0.0000
14	TLK822	NL	0	0.5823232D+02	-0.9042668D-07	0.1231992D+03	0.4727	0.0229	0.0231	0.0204	0.0204
						0.2038419D+02	2.8567		0.0080		0.0070
									-0.0466		-0.0700
15	RFK822	NL	0	-0.5343027D+04	-0.3610808D-09	0.1151621D+05	-0.4640	-0.0084	-0.0085	-0.0075	-0.0075
						0.3051665D+04	-1.7509		-0.0029		-0.0026
									0.0171		0.0258
16	SFK822	NL	0	0.7641770D+03	-0.1177635D-08	0.1791116D+04	0.4266	0.0039	0.0039	0.0023	0.0023
						0.7066003D+03	1.0815		0.0014		0.0008
									-0.0080		-0.0080
17	CSFMR822	NL	0	-0.3250188D+03	-0.1104224D-07	0.6909138D+03	-0.4704	-0.0156	-0.0157	-0.0121	-0.0121
						0.1095599D+03	-2.9666		-0.0054		-0.0042
									0.0317		0.0415
18	LOIIND61	NL	0	0.1594703D+05	-0.3996344D-09	0.3509741D+05	0.4544	0.0279	0.0282	0.0297	0.0296
						0.1229155D+05	1.2974		0.0097		0.0102
									-0.0569		-0.1018
19	LOIAS	NL	0	0.1313414D+05	-0.8604669D-10	0.3440905D+05	0.3817	0.0052	0.0052	0.0244	0.0244
						0.1632523D+05	0.8045		0.0018		0.0084
									-0.0105		-0.0838
20	MOP62	NL	0	0.3899133D+04	-0.3806207D-09	0.1313670D+05	0.2968	0.0065	0.0066	0.0073	0.0072
						0.1121792D+05	0.3476		0.0023		0.0025
									-0.0133		-0.0249
21	VWMD	NL	0	0.7465141D+04	-0.5679051D-09	0.1587777D+05	0.4702	0.0185	0.0187	0.0220	0.0220
						0.3650814D+04	2.0448		0.0065		0.0076
									-0.0378		-0.0756
22	EX7	NL	0	0.3690779D-02	-0.2883889D-04	0.9565999D-02	0.3858	0.0005	0.0005	0.0000	0.0000
						0.5342189D-02	0.6909		0.0002		0.0000
									-0.0009		0.0000
23	JO	NL	0	-0.5038904D+03	-0.9721291D-11	0.9927080D+04	-0.0508	0.0000	0.0000	0.0000	0.0000
						0.9927041D+04	-0.0508		0.0000		0.0000
									0.0000		0.0000
24	PGRPKM	EL	1	-0.7769259D+06	0.6690567D-09	0.1961393D+07	-0.3961	-0.1057	-0.1067	-0.1325	-0.1322
						0.6438015D+06	-1.2068		-0.0369		-0.0458
									0.2156		0.4548
25	ENTRNMDC	EL	1	0.6540922D+04	-0.1000260D-07	0.1106782D+05	0.5910	0.2004	0.2022	0.2152	0.2148
						0.3454022D+04	1.8937		0.0700		0.0743
									-0.4085		-0.7385
26	FAD822	EL	1	0.2070969D+06	0.4916395D-09	0.4584112D+06	0.4518	0.1330	0.1342	0.1205	0.1202
						0.8561156D+05	2.4190		0.0464		0.0416
									-0.2711		-0.4135
27	PCBNETT	EL	1	0.6379944D+03	-0.1538597D-07	0.2580666D+04	0.2472	0.0299	0.0302	0.0441	0.0440
						0.2531846D+04	0.2520		0.0105		0.0152
									-0.0610		-0.1512
28	AUPPOP	EL	1	0.3312558D+06	0.4163911D-09	0.8233106D+06	0.4023	0.2880	0.2906	0.3202	0.3195
						0.2325811D+06	1.4243		0.1005		0.1105
									-0.5870		-1.0987
29	VUTGAPAD	EL	1	0.4062563D+06	0.6072838D-09	0.9577363D+06	0.4242	0.1265	0.1276	0.1141	0.1139
						0.3213672D+06	1.2641		0.0442		0.0394
									-0.2579		-0.3916
30	PPAS	EL	1	-0.8305813D+06	0.5022343D-09	0.1915533D+07	-0.4336	-0.5116	-0.5162	-0.6403	-0.6389
						0.3127660D+06	-2.6556		-0.1786		-0.2210
									1.0429		2.1970
31	SURPOL	EL	1	-0.1915018D+05	-0.2119338D-08	0.3768581D+05	-0.5082	-0.1553	-0.1567	-0.1355	-0.1352
						0.5057607D+04	-3.7864		-0.0542		-0.0468
									0.3165		0.4648
32	TW822	EL	1	0.3527776D+05	-0.1275301D-08	0.6827152D+05	0.5167	0.2012	0.2030	0.2208	0.2204
						0.1267285D+05	2.7837		0.0702		0.0762
									-0.4102		-0.7578
33	PERPA	EL	1	0.3184734D+05	-0.1328731D-09	0.1158994D+06	0.2748	0.0769	0.0776	0.0756	0.0755
						0.7570886D+05	0.4207		0.0268		0.0261
									-0.1568		-0.2595
34	PRCHOM	EL	1	-0.3907532D+06	0.6322075D-09	0.9393411D+06	-0.4160	-0.0949	-0.0958	-0.1118	-0.1116
						0.9857617D+05	-3.9640		-0.0331		-0.0386
									0.1935		0.3837
35	PRFEVM	EL	1	-0.1589727D+07	0.6782688D-09	0.4080046D+07	-0.3896	-0.1731	-0.1747	-0.1495	-0.1491
						0.9093140D+06	-1.7483		-0.0604		-0.0516
									0.3529		0.5128
36	PRMED	EL	1	-0.3886681D+04	-0.7467649D-09	0.1257874D+05	-0.3090	-0.0163	-0.0164	-0.0170	-0.0170
						0.9497273D+04	-0.4092		-0.0057		-0.0059
									0.0331		0.0584
37	PRALT	EL	1	-0.1068646D+05	0.1447449D-09	0.3606116D+05	-0.2963	-0.0175	-0.0177	-0.0167	-0.0167
						0.2292880D+05	-0.4661		-0.0061		-0.0058
									0.0357		0.0575
38	EIQP	EL	1	0.3424083D+04	-0.1669469D-07	0.5928662D+04	0.5775	0.1703	0.1718	0.1548	0.1544
						0.2555226D+04	1.3400		0.0594		0.0534
									-0.3471		-0.5311
39	RSIDPQPE	EL	1	0.6604156D+03	-0.1237042D-06	0.8709875D+03	0.7582	0.2352	0.2373	0.2475	0.2470
						0.1668639D+03	3.9578		0.0821		0.0854
									-0.4795		-0.8493
40	LIVMADPE	EL	1	0.1533048D+03	-0.2166593D-06	0.2475382D+03	0.6193	0.0954	0.0962	0.1012	0.1010
						0.1718410D+03	0.8921		0.0333		0.0349
									-0.1944		-0.3471
41	WD	EL	1	0.1008781D+05	-0.4514794D-08	0.1850038D+05	0.5453	0.1500	0.1514	0.1376	0.1373
						0.5819772D+04	1.7334		0.0524		0.0475
									-0.3058		-0.4721
42	SAT	EL	1	-0.5910881D+04	-0.1155924D-08	0.1307246D+05	-0.4522	-0.0315	-0.0318	-0.0287	-0.0286
						0.5666386D+04	-1.0431		-0.0110		-0.0099
									0.0642		0.0985
43	SHD	EL	1	-0.8148689D+04	-0.1392932D-08	0.1652594D+05	-0.4931	-0.0490	-0.0494	-0.0439	-0.0438
						0.4781364D+04	-1.7043		-0.0171		-0.0152

44	constant	NL	0	-0.3788503D+07	-0.4690067D-09	0.9092183D+07 0.2042355D+07	-0.4167 -1.8550	-7.7140	0.0998 -7.7838 -2.6926 15.7251	-7.0448	0.1507 -7.0295 -2.4320 24.1729
Autocorrelation											
45	rho	3		0.2130743D+00	0.6394697D-07	0.7458699D-01 0.7194994D-01	2.8567 2.9614				
46	rho	10		-0.2262964D+00	0.3184595D-07	0.7768788D-01 0.7743150D-01	-2.9129 -2.9225				
Box-cox on (x)											
47	lambda(x)	1 = lambda(y)		0.6545090D+00	0.7339379D-02	0.1041947D+00	6.2816 -3.3158				
Residual (w)											
48	error variance			0.3005586D+09	-0.2274747D-22	0.1254823D+10 0.2586475D+08	0.2395 11.6204				

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 MOCYPAD	0.6786242D+07	0.6752588D+07	0.8322461D+05	-0.6771738D-03
2 DISCEIN	0.1579802D+09	0.1571967D+09	0.1937426D+07	-0.1576425D-01
3 LVCEI	-0.2354893D+07	-0.2343215D+07	-0.2887977D+05	0.2349860D-03
4 P08PC	0.2316601D+07	0.2305113D+07	0.2841016D+05	-0.2311650D-03
5 PTDEM	-0.3206454D+07	-0.3190553D+07	-0.3932308D+05	0.3199601D-03
6 NCR0UT04	-0.2771329D+08	-0.2757585D+08	-0.3398681D+06	0.2765405D-02
7 GRPOL	-0.9819031D+06	-0.9770336D+06	-0.1204179D+05	0.9798044D-04
8 STR813	0.8451702D+06	0.8409789D+06	0.1036494D+05	-0.8433638D-04
9 STRP	0.2871929D+07	0.2857686D+07	0.3522055D+05	-0.2865791D-03
10 STRCUQ	0.7487952D+05	0.7450818D+05	0.9183019D+03	-0.7471948D-05
11 GRVOY	0.6772521D+05	0.6738935D+05	0.8305634D+03	-0.6758046D-05
12 AUTPKRP	0.1244693D+09	0.1238520D+09	0.1526457D+07	-0.1242033D-01
13 GRMUMH	0.7709059D+06	0.7670829D+06	0.9454179D+04	-0.7692582D-04
14 TLK822	0.5879354D+05	0.5850198D+05	0.7210279D+03	-0.5866788D-05
15 RFK822	-0.5394522D+07	-0.5367770D+07	-0.6615693D+05	0.5382992D-03
16 SFK822	0.7715420D+06	0.7677158D+06	0.9461979D+04	-0.7698929D-04
17 CSFMR822	-0.3281513D+06	-0.3265239D+06	-0.4024357D+04	0.3274499D-04
18 LOIIND61	0.1610072D+08	0.1602087D+08	0.1974548D+06	-0.1606631D-02
19 LOIAS	0.1326072D+08	0.1319496D+08	0.1626258D+06	-0.1323238D-02
20 MOP62	0.3936711D+07	0.3917189D+07	0.4827875D+05	-0.3928297D-03
21 VWMD	0.7537088D+07	0.7499710D+07	0.9243278D+05	-0.7520979D-03
22 EX7	0.3726350D+01	0.3707870D+01	0.4569893D-01	-0.3718385D-09
23 JO	-0.5087467D+06	-0.5062238D+06	-0.6239130D+04	0.5076594D-04
24 PGRPKM	-0.3271558D+10	-0.3255334D+10	-0.4012149D+08	0.3264566D+00
25 ENTRNMD	0.1578549D+07	0.1570721D+07	0.1935890D+05	-0.1575176D-03
26 FAD822	0.3844742D+09	0.3825675D+09	0.4715085D+07	-0.3836524D-01
27 PCBNETT	0.1229253D+06	0.1223157D+06	0.1507522D+04	-0.1226626D-04
28 AUPOP	0.5241415D+09	0.5215422D+09	0.6427927D+07	-0.5230212D-01
29 VUTGAPAD	0.1105196D+10	0.1099715D+10	0.1355382D+08	-0.1102834D+00
30 PFAS	-0.1576362D+10	-0.1568545D+10	-0.1933208D+08	0.1572993D+00
31 SURPOL	-0.9323541D+07	-0.9277304D+07	-0.1143414D+06	0.9303614D-03
32 TW822	0.2067952D+08	0.2057697D+08	0.2536080D+06	-0.2063532D-02
33 PERPA	0.2938519D+08	0.2923947D+08	0.3603719D+06	-0.2932239D-02

34	PRCHOM	-0.1211933D+10	-0.1205923D+10	-0.1486282D+08	0.1209343D+00
35	PRFEVM	-0.7530713D+10	-0.7493367D+10	-0.9235460D+08	0.7514617D+00
36	PRMED	-0.2683521D+07	-0.2670213D+07	-0.3290996D+05	0.2677785D-03
37	PRALT	-0.1210210D+08	-0.1204208D+08	-0.1484168D+06	0.1207623D-02
38	EIQP	0.6399604D+06	0.6367867D+06	0.7848298D+04	-0.6385925D-04
39	RSIDPQPE	0.4365837D+05	0.4344186D+05	0.5354142D+03	-0.4356505D-05
40	LIVMADPE	0.7550717D+04	0.7513271D+04	0.9259992D+02	-0.7534578D-06
41	WD	0.3565753D+07	0.3548070D+07	0.4372942D+05	-0.3558132D-03
42	SAT	-0.3592034D+07	-0.3574221D+07	-0.4405172D+05	0.3584357D-03
43	SHD	-0.4646363D+07	-0.4623321D+07	-0.5698172D+05	0.4636432D-03
44	constant	-0.3825016D+10	-0.3806047D+10	-0.4690895D+08	0.3816841D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.8114D+02	-0.9972D+10
SIGMA(y)	0.1232D-01	0.1000D+01	-0.1229D+09
GAMMA(y)	-0.1003D-09	-0.8137D-08	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2891D+01	-0.4950D+00
SIGMA(y)	0.3459D+00	0.1000D+01	-0.1712D+00
GAMMA(y)	-0.2020D+01	-0.5840D+01	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	MOCYPAD	DISCEIN	LVCEI	P08PC	PTDEM	NCR0UT04	GRPOL	STR813	STRP	STRCUQ
MOCYPAD		0.1000D+01	0.2328D+02	-0.3470D+00	0.3414D+00	-0.4725D+00	-0.4084D+01	-0.1447D+00	0.1245D+00	0.4232D+00	0.1103D-01
DISCEIN		0.4296D-01	0.1000D+01	-0.1491D-01	0.1466D-01	-0.2030D-01	-0.1754D+00	-0.6215D-02	0.5350D-02	0.1818D-01	0.4740D-03
LVCEI		-0.2882D+01	-0.6709D+02	0.1000D+01	-0.9837D+00	0.1362D+01	0.1177D+02	0.4170D+00	-0.3589D+00	-0.1220D+01	-0.3180D-01
P08PC		0.2929D+01	0.6819D+02	-0.1017D+01	0.1000D+01	-0.1384D+01	-0.1196D+02	-0.4239D+00	0.3648D+00	0.1240D+01	0.3232D-01
PTDEM		-0.2116D+01	-0.4927D+02	0.7344D+00	-0.7225D+00	0.1000D+01	0.8643D+01	0.3062D+00	-0.2636D+00	-0.8957D+00	-0.2335D-01
NCR0UT04		-0.2449D+00	-0.5701D+01	0.8497D-01	-0.8359D-01	0.1157D+00	0.1000D+01	0.3543D-01	-0.3050D-01	-0.1036D+00	-0.2702D-02
GRPOL		-0.6911D+01	-0.1609D+03	0.2398D+01	-0.2359D+01	0.3266D+01	0.2822D+02	0.1000D+01	-0.8607D+00	-0.2925D+01	-0.7626D-01
STR813		0.8029D+01	0.1869D+03	-0.2786D+01	0.2741D+01	-0.3794D+01	-0.3279D+02	-0.1162D+01	0.1000D+01	0.3398D+01	0.8860D-01
STRP		0.2363D+01	0.5501D+02	-0.8200D+00	0.8066D+00	-0.1116D+01	-0.9650D+01	-0.3419D+00	0.2943D+00	0.1000D+01	0.2607D-01
STRCUQ		0.9063D+02	0.2110D+04	-0.3145D+02	0.3094D+02	-0.4282D+02	-0.3701D+03	-0.1311D+02	0.1129D+02	0.3835D+02	0.1000D+01
GRVOY		0.1002D+03	0.2333D+04	-0.3477D+02	0.3421D+02	-0.4735D+02	-0.4092D+03	-0.1450D+02	0.1248D+02	0.4241D+02	0.1106D+01
AUTPKRP		0.5452D-01	0.1269D+01	-0.1892D-01	0.1861D-01	-0.2576D-01	-0.2227D+00	-0.7889D-02	0.6790D-02	0.2307D-01	0.6016D-03
GRMUMH		0.8803D+01	0.2049D+03	-0.3055D+01	0.3005D+01	-0.4159D+01	-0.3595D+02	-0.1274D+01	0.1096D+01	0.3725D+01	0.9713D-01
TLK822		0.1154D+03	0.2687D+04	-0.4005D+02	0.3940D+02	-0.5454D+02	-0.4714D+03	-0.1670D+02	0.1438D+02	0.4885D+02	0.1274D+01
RFK822		-0.1258D+01	-0.2929D+02	0.4365D+00	-0.4294D+00	0.5944D+00	0.5137D+01	0.1820D+00	-0.1567D+00	-0.5324D+00	-0.1388D-01
SFK822		0.8796D+01	0.2048D+03	-0.3052D+01	0.3003D+01	-0.4156D+01	-0.3592D+02	-0.1273D+01	0.1095D+01	0.3722D+01	0.9705D-01
CSFMR822		-0.2068D+02	-0.4814D+03	0.7176D+01	-0.7060D+01	0.9771D+01	0.8445D+02	0.2992D+01	-0.2576D+01	-0.8752D+01	-0.2282D+00
LOIIND61		0.4215D+00	0.9812D+01	-0.1463D+00	0.1439D+00	-0.1991D+00	-0.1721D+01	-0.6099D-01	0.5249D-01	0.1784D+00	0.4651D-02
LOIAS		0.5118D+00	0.1191D+02	-0.1776D+00	0.1747D+00	-0.2418D+00	-0.2090D+01	-0.7405D-01	0.6373D-01	0.2166D+00	0.5647D-02
MOP62		0.1724D+01	0.4013D+02	-0.5982D+00	0.5885D+00	-0.8145D+00	-0.7040D+01	-0.2494D+00	0.2147D+00	0.7295D+00	0.1902D-01
VWMD		0.9004D+00	0.2096D+02	-0.3124D+00	0.3074D+00	-0.4254D+00	-0.3677D+01	-0.1303D+00	0.1121D+00	0.3810D+00	0.9935D-02
EX7		0.1821D+07	0.4240D+08	-0.6320D+06	0.6217D+06	-0.8605D+06	-0.7437D+07	-0.2635D+06	0.2268D+06	0.7707D+06	0.2009D+05

JO	-0.1334D+02	-0.3105D+03	0.4629D+01	-0.4554D+01	0.6303D+01	0.5447D+02	0.1930D+01	-0.1661D+01	-0.5645D+01	-0.1472D+00	
PGRPKM	-0.2074D-02	-0.4829D-01	0.7198D-03	-0.7081D-03	0.9801D-03	0.8471D-02	0.3001D-03	-0.2583D-03	-0.8778D-03	-0.2289D-04	
ENTRNMDC	0.4299D+01	0.1001D+03	-0.1492D+01	0.1468D+01	-0.2031D+01	-0.1756D+02	-0.6220D+00	0.5354D+00	0.1819D+01	0.4744D-01	
FAD822	0.1765D-01	0.4109D+00	-0.6125D-02	0.6025D-02	-0.8340D-02	-0.7208D-01	-0.2554D-02	0.2198D-02	0.7470D-02	0.1948D-03	
PCBNETT	0.5521D+02	0.1285D+04	-0.1916D+02	0.1885D+02	-0.2608D+02	-0.2254D+03	-0.7988D+01	0.6875D+01	0.2336D+02	0.6091D+00	
AUPPOP	0.1295D-01	0.3014D+00	-0.4493D-02	0.4420D-02	-0.6118D-02	-0.5287D-01	-0.1873D-02	0.1612D-02	0.5479D-02	0.1429D-03	
VUTGAPAD	0.6140D-02	0.1429D+00	-0.2131D-02	0.2096D-02	-0.2901D-02	-0.2508D-01	-0.8884D-03	0.7647D-03	0.2599D-02	0.6775D-04	
FPAS	-0.4305D-02	-0.1002D+00	0.1494D-02	-0.1470D-02	0.2034D-02	0.1758D-01	0.6229D-03	-0.5362D-03	-0.1822D-02	-0.4750D-04	
SURPOL	-0.7279D+00	-0.1694D+02	0.2526D+00	-0.2485D+00	0.3439D+00	0.2972D+01	0.1053D+00	-0.9065D-01	-0.3080D+00	-0.8031D-02	
TW822	0.3282D+00	0.7639D+01	-0.1139D+00	0.1120D+00	-0.1551D+00	-0.1340D+01	-0.4748D-01	0.4087D-01	0.1389D+00	0.3621D-02	
PERPA	0.2309D+00	0.5376D+01	-0.8014D-01	0.7884D-01	-0.1091D+00	-0.9431D+00	-0.3341D-01	0.2876D-01	0.9773D-01	0.2548D-02	
PRCHOM	-0.5600D-02	-0.1304D+00	0.1943D-02	-0.1911D-02	0.2646D-02	0.2287D-01	0.8102D-03	-0.6974D-03	-0.2370D-02	-0.6179D-04	
PRFEVM	-0.9011D-03	-0.2098D-01	0.3127D-03	-0.3076D-03	0.4258D-03	0.3680D-02	0.1304D-03	-0.1122D-03	-0.3814D-03	-0.9943D-05	
PRMED	-0.2529D+01	-0.5887D+02	0.8775D+00	-0.8633D+00	0.1195D+01	0.1033D+02	0.3659D+00	-0.3149D+00	-0.1070D+01	-0.2790D-01	
PRALT	-0.5607D+00	-0.1305D+02	0.1946D+00	-0.1914D+00	0.2650D+00	0.2290D+01	0.8113D-01	-0.6984D-01	-0.2373D+00	-0.6187D-02	
EIQP	0.1060D+02	0.2469D+03	-0.3680D+01	0.3620D+01	-0.5010D+01	-0.4330D+02	-0.1534D+01	0.1321D+01	0.4488D+01	0.1170D+00	
RSIDPQPE	0.1554D+03	0.3619D+04	-0.5394D+02	0.5306D+02	-0.7344D+02	-0.6348D+03	-0.2249D+02	0.1936D+02	0.6578D+02	0.1715D+01	
LIVMADPE	0.8988D+03	0.2092D+05	-0.3119D+03	0.3068D+03	-0.4247D+03	-0.3670D+04	-0.1300D+03	0.1119D+03	0.3804D+03	0.9917D+01	
WD	0.1903D+01	0.4430D+02	-0.6604D+00	0.6497D+00	-0.8992D+00	-0.7772D+01	-0.2754D+00	0.2370D+00	0.8054D+00	0.2100D-01	
SAT	-0.1889D+01	-0.4398D+02	0.6556D+00	-0.6449D+00	0.8927D+00	0.7715D+01	0.2734D+00	-0.2353D+00	-0.7995D+00	-0.2085D-01	
SHD	-0.1461D+01	-0.3400D+02	0.5068D+00	-0.4986D+00	0.6901D+00	0.5965D+01	0.2113D+00	-0.1819D+00	-0.6181D+00	-0.1612D-01	
constant	-0.1774D-02	-0.4130D-01	0.6157D-03	-0.6056D-03	0.8383D-03	0.7245D-02	0.2567D-03	-0.2210D-03	-0.7508D-03	-0.1958D-04	
=====											
X(1)	X(k)	GRVOY	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62
=====											
MOCYPAD	0.9980D-02	0.1834D+02	0.1136D+00	0.8664D-02	-0.7949D+00	0.1137D+00	-0.4836D-01	0.2373D+01	0.1954D+01	0.5801D+00	
DISCEIN	0.4287D-03	0.7879D+00	0.4880D-02	0.3722D-03	-0.3415D-01	0.4884D-02	-0.2077D-02	0.1019D+00	0.8394D-01	0.2492D-01	
LVCEI	-0.2876D-01	-0.5286D+02	-0.3274D+00	-0.2497D-01	0.2291D+01	-0.3276D+00	0.1393D+00	-0.6837D+01	-0.5631D+01	-0.1672D+01	
P08PC	0.2923D-01	0.5373D+02	0.3328D+00	0.2538D-01	-0.2329D+01	0.3330D+00	-0.1417D+00	0.6950D+01	0.5724D+01	0.1699D+01	
PTDEM	-0.2112D-01	-0.3882D+02	-0.2404D+00	-0.1834D-01	0.1682D+01	-0.2406D+00	0.1023D+00	-0.5021D+01	-0.4136D+01	-0.1228D+01	
NCROUT04	-0.2444D-02	-0.4491D+01	-0.2782D-01	-0.2121D-02	0.1947D+00	-0.2784D-01	0.1184D-01	-0.5810D+00	-0.4785D+00	-0.1421D+00	
GRPOL	-0.6897D-01	-0.1268D+03	-0.7851D+00	-0.5988D-01	0.5494D+01	-0.7858D+00	0.3342D+00	-0.1640D+02	-0.1351D+02	-0.4009D+01	
STR813	0.8013D-01	0.1473D+03	0.9121D+00	0.6956D-01	-0.6383D+01	0.9129D+00	-0.3883D+00	0.1905D+02	0.1569D+02	0.4658D+01	
STRP	0.2358D-01	0.4334D+02	0.2684D+00	0.2047D-01	-0.1878D+01	0.2686D+00	-0.1143D+00	0.5606D+01	0.4617D+01	0.1371D+01	
STRCUQ	0.9045D+00	0.1662D+04	0.1030D+02	0.7852D+00	-0.7204D+02	0.1030D+02	-0.4382D+01	0.2150D+03	0.1771D+03	0.5257D+02	
GRVOY	0.1000D+01	0.1838D+04	0.1138D+02	0.8681D+00	-0.7965D+02	0.1139D+02	-0.4845D+01	0.2377D+03	0.1958D+03	0.5813D+02	
AUTPKRP	0.5441D-03	0.1000D+01	0.6194D-02	0.4724D-03	-0.4334D-01	0.6199D-02	-0.2636D-02	0.1294D+00	0.1065D+00	0.3163D-01	
GRMUMH	0.8785D-01	0.1615D+03	0.1000D+01	0.7627D-01	-0.6998D+01	0.1001D+01	-0.4257D+00	0.2089D+02	0.1720D+02	0.5107D+01	
TLK822	0.1152D+01	0.2117D+04	0.1311D+02	0.1000D+01	-0.9175D+02	0.1312D+02	-0.5581D+01	0.2739D+03	0.2255D+03	0.6696D+02	
RFK822	-0.1255D-01	-0.2307D+02	-0.1429D+00	-0.1090D-01	0.1000D+01	-0.1430D+00	0.6083D-01	-0.2985D+01	-0.2458D+01	-0.7298D+00	
SFK822	0.8778D-01	0.1613D+03	0.9992D+00	0.7620D-01	-0.6992D+01	0.1000D+01	-0.4253D+00	0.2087D+02	0.1719D+02	0.5102D+01	
CSFMR822	-0.2064D+00	-0.3793D+03	-0.2349D+01	-0.1792D+00	0.1644D+02	-0.2351D+01	0.1000D+01	-0.4906D+02	-0.4041D+02	-0.1200D+02	
LOIIND61	0.4206D-02	0.7731D+01	0.4788D-01	0.3652D-02	-0.3350D+00	0.4792D-01	-0.2038D-01	0.1000D+01	0.8236D+00	0.2445D+00	
LOIAS	0.5107D-02	0.9386D+01	0.5813D-01	0.4434D-02	-0.4068D+00	0.5818D-01	-0.2475D-01	0.1214D+01	0.1000D+01	0.2969D+00	
MOP62	0.1720D-01	0.3162D+02	0.1958D+00	0.1493D-01	-0.1370D+01	0.1960D+00	-0.8336D-01	0.4090D+01	0.3368D+01	0.1000D+01	
VWMD	0.8986D-02	0.1651D+02	0.1023D+00	0.7801D-02	-0.7157D+00	0.1024D+00	-0.4354D-01	0.2136D+01	0.1759D+01	0.5223D+00	
EX7	0.1817D+05	0.3340D+08	0.2069D+06	0.1578D+05	-0.1448D+07	0.2071D+06	-0.8806D+05	0.4321D+07	0.3559D+07	0.1056D+07	
JO	-0.1331D+00	-0.2447D+03	-0.1515D+01	-0.1156D+00	0.1060D+02	-0.1517D+01	0.6450D+00	-0.3165D+02	-0.2607D+02	-0.7738D+01	
PGRPKM	-0.2070D-04	-0.3805D-01	-0.2356D-03	-0.1797D-04	0.1649D-02	-0.2358D-03	0.1003D-03	-0.4921D-02	-0.4053D-02	-0.1203D-02	
ENTRNMDC	0.4290D-01	0.7885D+02	0.4884D+00	0.3725D-01	-0.3417D+01	0.4888D+00	-0.2079D+00	0.1020D+02	0.8401D+01	0.2494D+01	
FAD822	0.1762D-03	0.3237D+00	0.2005D-02	0.1529D-03	-0.1403D-01	0.2007D-02	-0.8535D-03	0.4188D-01	0.3449D-01	0.1024D-01	

PCBNETT	0.5509D+00	0.1013D+04	0.6271D+01	0.4783D+00	-0.4388D+02	0.6277D+01	-0.2670D+01	0.1310D+03	0.1079D+03	0.3203D+02
AUPPOP	0.1292D-03	0.2375D+00	0.1471D-02	0.1122D-03	-0.1029D-01	0.1472D-02	-0.6261D-03	0.3072D-01	0.2530D-01	0.7511D-02
VUTGAPAD	0.6128D-04	0.1126D+00	0.6975D-03	0.5320D-04	-0.4881D-02	0.6981D-03	-0.2969D-03	0.1457D-01	0.1200D-01	0.3562D-02
PPAS	-0.4296D-04	-0.7896D-01	-0.4890D-03	-0.3730D-04	0.3422D-02	-0.4894D-03	0.2082D-03	-0.1021D-01	-0.8412D-02	-0.2497D-02
SURPOL	-0.7264D-02	-0.1335D+02	-0.8268D-01	-0.6306D-02	0.5786D+00	-0.8275D-01	0.3520D-01	-0.1727D+01	-0.1422D+01	-0.4222D+00
TW822	0.3275D-02	0.6019D+01	0.3728D-01	0.2843D-02	-0.2609D+00	0.3731D-01	-0.1587D-01	0.7786D+00	0.6412D+00	0.1904D+00
PERPA	0.2305D-02	0.4236D+01	0.2623D-01	0.2001D-02	-0.1836D+00	0.2626D-01	-0.1117D-01	0.5479D+00	0.4513D+00	0.1340D+00
PRCHOM	-0.5588D-04	-0.1027D+00	-0.6361D-03	-0.4851D-04	0.4451D-02	-0.6366D-03	0.2708D-03	-0.1329D-01	-0.1094D-01	-0.3248D-02
PRFEVM	-0.8993D-05	-0.1653D-01	-0.1024D-03	-0.7807D-05	0.7163D-03	-0.1025D-03	0.4358D-04	-0.2138D-02	-0.1761D-02	-0.5228D-03
PRMED	-0.2524D-01	-0.4638D+02	-0.2873D+00	-0.2191D-01	0.2010D+01	-0.2875D+00	0.1223D+00	-0.6000D+01	-0.4942D+01	-0.1467D+01
PRALT	-0.5596D-02	-0.1028D+02	-0.6370D-01	-0.4858D-02	0.4458D+00	-0.6375D-01	0.2712D-01	-0.1330D+01	-0.1096D+01	-0.3253D+00
EIQP	0.1058D+00	0.1945D+03	0.1205D+01	0.9187D-01	-0.8429D+01	0.1206D+01	-0.5128D+00	0.2516D+02	0.2072D+02	0.6151D+01
RSIDPQPE	0.1551D+01	0.2851D+04	0.1766D+02	0.1347D+01	-0.1236D+03	0.1767D+02	-0.7516D+01	0.3688D+03	0.3037D+03	0.9017D+02
LIVMADPE	0.8969D+01	0.1648D+05	0.1021D+03	0.7786D+01	-0.7144D+03	0.1022D+03	-0.4346D+02	0.2132D+04	0.1756D+04	0.5214D+03
WD	0.1899D-01	0.3491D+02	0.2162D+00	0.1649D-01	-0.1513D+01	0.2164D+00	-0.9203D-01	0.4515D+01	0.3719D+01	0.1104D+01
SAT	-0.1885D-01	-0.3465D+02	-0.2146D+00	-0.1637D-01	0.1502D+01	-0.2148D+00	0.9136D-01	-0.4482D+01	-0.3692D+01	-0.1096D+01
SHD	-0.1458D-01	-0.2679D+02	-0.1659D+00	-0.1265D-01	0.1161D+01	-0.1661D+00	0.7063D-01	-0.3465D+01	-0.2854D+01	-0.8473D+00
constant	-0.1771D-04	-0.3254D-01	-0.2015D-03	-0.1537D-04	0.1410D-02	-0.2017D-03	0.8579D-04	-0.4209D-02	-0.3467D-02	-0.1029D-02
X(k)	VWMD	EX7	JO	PGRPKM	ENTRNMDC	FAD822	PCBNETT	AUPPOP	VUTGAPAD	PPAS
X(l)										
MOCYPAD	0.1111D+01	0.5491D-06	-0.7497D-01	-0.4821D+03	0.2326D+00	0.5665D+02	0.1811D-01	0.7724D+02	0.1629D+03	-0.2323D+03
DISCEIN	0.4771D-01	0.2359D-07	-0.3220D-02	-0.2071D+02	0.9992D-02	0.2434D+01	0.7781D-03	0.3318D+01	0.6996D+01	-0.9978D+01
LVCEI	-0.3201D+01	-0.1582D-05	0.2160D+00	0.1389D+04	-0.6703D+00	-0.1633D+03	-0.5220D-01	-0.2226D+03	-0.4693D+03	0.6694D+03
P08PC	0.3254D+01	0.1609D-05	-0.2196D+00	-0.1412D+04	0.6814D+00	0.1660D+03	0.5306D-01	0.2263D+03	0.4771D+03	-0.6805D+03
PTDEM	-0.2351D+01	-0.1162D-05	0.1587D+00	0.1020D+04	-0.4923D+00	-0.1199D+03	-0.3834D-01	-0.1635D+03	-0.3447D+03	0.4916D+03
NCROUT04	-0.2720D+00	-0.1345D-06	0.1836D-01	0.1181D+03	-0.5696D-01	-0.1387D+02	-0.4436D-02	-0.1891D+02	-0.3988D+02	0.5688D+02
GRPOL	-0.7676D+01	-0.3795D-05	0.5181D+00	0.3332D+04	-0.1608D+01	-0.3916D+03	-0.1252D+00	-0.5338D+03	-0.1126D+04	0.1605D+04
STR813	0.8918D+01	0.4409D-05	-0.6019D+00	-0.3871D+04	0.1868D+01	0.4549D+03	0.1454D+00	0.6202D+03	0.1308D+04	-0.1865D+04
STRP	0.2624D+01	0.1298D-05	-0.1771D+00	-0.1139D+04	0.5496D+00	0.1339D+03	0.4280D-01	0.1825D+03	0.3848D+03	-0.5489D+03
STRCUQ	0.1007D+03	0.4976D-04	-0.6794D+01	-0.4369D+05	0.2108D+02	0.5135D+04	0.1642D+01	0.7000D+04	0.1476D+05	-0.2105D+05
GRVOY	0.1113D+03	0.5502D-04	-0.7512D+01	-0.4831D+05	0.2331D+02	0.5677D+04	0.1815D+01	0.7739D+04	0.1632D+05	-0.2328D+05
AUTPKRP	0.6055D-01	0.2994D-07	-0.4087D-02	-0.2628D+02	0.1268D-01	0.3089D+01	0.9876D-03	0.4211D+01	0.8879D+01	-0.1266D+02
GRMUMH	0.9777D+01	0.4834D-05	-0.6599D+00	-0.4244D+04	0.2048D+01	0.4987D+03	0.1595D+00	0.6799D+03	0.1434D+04	-0.2045D+04
TLK822	0.1282D+03	0.6338D-04	-0.8653D+01	-0.5564D+05	0.2685D+02	0.6539D+04	0.2091D+01	0.8915D+04	0.1880D+05	-0.2681D+05
RFK822	-0.1397D+01	-0.6908D-06	0.9431D-01	0.6065D+03	-0.2926D+00	-0.7127D+02	-0.2279D-01	-0.9716D+02	-0.2049D+03	0.2922D+03
SFK822	0.9769D+01	0.4830D-05	-0.6594D+00	-0.4240D+04	0.2046D+01	0.4983D+03	0.1593D+00	0.6793D+03	0.1432D+04	-0.2043D+04
CSFMR822	-0.2297D+02	-0.1136D-04	0.1550D+01	0.9970D+04	-0.4810D+01	-0.1172D+04	-0.3746D+00	-0.1597D+04	-0.3368D+04	0.4804D+04
LOIIND61	0.4681D+00	0.2314D-06	-0.3160D-01	-0.2032D+03	0.9804D-01	0.2388D+02	0.7635D-02	0.3255D+02	0.6864D+02	-0.9791D+02
LOIAS	0.5684D+00	0.2810D-06	-0.3836D-01	-0.2467D+03	0.1190D+00	0.2899D+02	0.9270D-02	0.3953D+02	0.8334D+02	-0.1189D+03
MOP62	0.1915D+01	0.9466D-06	-0.1292D+00	-0.8310D+03	0.4010D+00	0.9766D+02	0.3123D-01	0.1331D+03	0.2807D+03	-0.4004D+03
VWMD	0.1000D+01	0.4944D-06	-0.6750D-01	-0.4341D+03	0.2094D+00	0.5101D+02	0.1631D-01	0.6954D+02	0.1466D+03	-0.2091D+03
EX7	0.2023D+07	0.1000D+01	-0.1365D+06	-0.8780D+09	0.4236D+06	0.1032D+09	0.3299D+05	0.1407D+09	0.2966D+09	-0.4230D+09
JO	-0.1482D+02	-0.7325D-05	0.1000D+01	0.6431D+04	-0.3103D+01	-0.7557D+03	-0.2416D+00	-0.1030D+04	-0.2172D+04	0.3099D+04
PGRPKM	-0.2304D-02	-0.1139D-08	0.1555D-03	0.1000D+01	-0.4825D-03	-0.1175D+00	-0.3757D-04	-0.1602D+00	-0.3378D+00	0.4818D+00
ENTRNMDC	0.4775D+01	0.2361D-05	-0.3223D+00	-0.2073D+04	0.1000D+01	0.2436D+03	0.7787D-01	0.3320D+03	0.7001D+03	-0.9986D+03
FAD822	0.1960D-01	0.9692D-08	-0.1323D-02	-0.8509D+01	0.4106D-02	0.1000D+01	0.3197D-03	0.1363D+01	0.2875D+01	-0.4100D+01
PCBNETT	0.6131D+02	0.3031D-04	-0.4139D+01	-0.2661D+05	0.1284D+02	0.3128D+04	0.1000D+01	0.4264D+04	0.8991D+04	-0.1282D+05
AUPPOP	0.1438D-01	0.7109D-08	-0.9706D-03	-0.6242D+01	0.3012D-02	0.7335D+00	0.2345D-03	0.1000D+01	0.2109D+01	-0.3008D+01
VUTGAPAD	0.6820D-02	0.3372D-08	-0.4603D-03	-0.2960D+01	0.1428D-02	0.3479D+00	0.1112D-03	0.4743D+00	0.1000D+01	-0.1426D+01
PPAS	-0.4781D-02	-0.2364D-08	0.3227D-03	0.2075D+01	-0.1001D-02	-0.2439D+00	-0.7798D-04	-0.3325D+00	-0.7011D+00	0.1000D+01

SURPOL	-0.8084D+00	-0.3997D-06	0.5457D-01	0.3509D+03	-0.1693D+00	-0.4124D+02	-0.1318D-01	-0.5622D+02	-0.1185D+03	0.1691D+03	
TW822	0.3645D+00	0.1802D-06	-0.2460D-01	-0.1582D+03	0.7633D-01	0.1859D+02	0.5944D-02	0.2535D+02	0.5344D+02	-0.7623D+02	
PERPA	0.2565D+00	0.1268D-06	-0.1731D-01	-0.1113D+03	0.5372D-01	0.1308D+02	0.4183D-02	0.1784D+02	0.3761D+02	-0.5364D+02	
PRCHOM	-0.6219D-02	-0.3075D-08	0.4198D-03	0.2699D+01	-0.1303D-02	-0.3172D+00	-0.1014D-03	-0.4325D+00	-0.9119D+00	0.1301D+01	
PRFEVM	-0.1001D-02	-0.4948D-09	0.6756D-04	0.4344D+00	-0.2096D-03	-0.5105D-01	-0.1632D-04	-0.6960D-01	-0.1468D+00	0.2093D+00	
PRMED	-0.2809D+01	-0.1389D-05	0.1896D+00	0.1219D+04	-0.5882D+00	-0.1433D+03	-0.4581D-01	-0.1953D+03	-0.4118D+03	0.5874D+03	
PRALT	-0.6228D+00	-0.3079D-06	0.4204D-01	0.2703D+03	-0.1304D+00	-0.3177D+02	-0.1016D-01	-0.4331D+02	-0.9132D+02	0.1303D+03	
EIQP	0.1178D+02	0.5823D-05	-0.7950D+00	-0.5112D+04	0.2467D+01	0.6008D+03	0.1921D+00	0.8190D+03	0.1727D+04	-0.2463D+04	
RSIDPQPE	0.1726D+03	0.8535D-04	-0.1165D+02	-0.7494D+05	0.3616D+02	0.8806D+04	0.2816D+01	0.1201D+05	0.2531D+05	-0.3611D+05	
LIVMADPE	0.9982D+03	0.4935D-03	-0.6738D+02	-0.4333D+06	0.2091D+03	0.5092D+05	0.1628D+02	0.6942D+05	0.1464D+06	-0.2088D+06	
WD	0.2114D+01	0.1045D-05	-0.1427D+00	-0.9175D+03	0.4427D+00	0.1078D+03	0.3447D-01	0.1470D+03	0.3099D+03	-0.4421D+03	
SAT	-0.2098D+01	-0.1037D-05	0.1416D+00	0.9108D+03	-0.4395D+00	-0.1070D+03	-0.3422D-01	-0.1459D+03	-0.3077D+03	0.4388D+03	
SHD	-0.1622D+01	-0.8020D-06	0.1095D+00	0.7041D+03	-0.3397D+00	-0.8275D+02	-0.2646D-01	-0.1128D+03	-0.2379D+03	0.3393D+03	
constant	-0.1970D-02	-0.9742D-09	0.1330D-03	0.8553D+00	-0.4127D-03	-0.1005D+00	-0.3214D-04	-0.1370D+00	-0.2889D+00	0.4121D+00	
=====											
X(l)	X(k)	SURPOL	TW822	PERPA	PRCHOM	PRFEVM	PRMED	PRALT	EIQP	RSIDPQPE	LIVMADPE
=====											
MOCYPAD	-0.1374D+01	0.3047D+01	0.4330D+01	-0.1786D+03	-0.1110D+04	-0.3954D+00	-0.1783D+01	0.9430D-01	0.6433D-02	0.1113D-02	
DISCEIN	-0.5902D-01	0.1309D+00	0.1860D+00	-0.7671D+01	-0.4767D+02	-0.1699D-01	-0.7661D-01	0.4051D-02	0.2764D-03	0.4780D-04	
LVCEI	0.3959D+01	-0.8782D+01	-0.1248D+02	0.5146D+03	0.3198D+04	0.1140D+01	0.5139D+01	-0.2718D+00	-0.1854D-01	-0.3206D-02	
P08PC	-0.4025D+01	0.8927D+01	0.1268D+02	-0.5232D+03	-0.3251D+04	-0.1158D+01	-0.5224D+01	0.2762D+00	0.1885D-01	0.3259D-02	
PTDEM	0.2908D+01	-0.6449D+01	-0.9164D+01	0.3780D+03	0.2349D+04	0.8369D+00	0.3774D+01	-0.1996D+00	-0.1362D-01	-0.2355D-02	
NCROUT04	0.3364D+00	-0.7462D+00	-0.1060D+01	0.4373D+02	0.2717D+03	0.9683D-01	0.4367D+00	-0.2309D-01	-0.1575D-02	-0.2725D-03	
GRPOL	0.9495D+01	-0.2106D+02	-0.2993D+02	0.1234D+04	0.7670D+04	0.2733D+01	0.1233D+02	-0.6518D+00	-0.4446D-01	-0.7690D-02	
STR813	-0.1103D+02	0.2447D+02	0.3477D+02	-0.1434D+04	-0.8910D+04	-0.3175D+01	-0.1432D+02	0.7572D+00	0.5166D-01	0.8934D-02	
STRP	-0.3246D+01	0.7201D+01	0.1023D+02	-0.4220D+03	-0.2622D+04	-0.9344D+00	-0.4214D+01	0.2228D+00	0.1520D-01	0.2629D-02	
STRCUQ	-0.1245D+03	0.2762D+03	0.3924D+03	-0.1619D+05	-0.1006D+06	-0.3584D+02	-0.1616D+03	0.8547D+01	0.5830D+00	0.1008D+00	
GRVOY	-0.1377D+03	0.3053D+03	0.4339D+03	-0.1789D+05	-0.1112D+06	-0.3962D+02	-0.1787D+03	0.9449D+01	0.6446D+00	0.1115D+00	
AUTPKRP	-0.7491D-01	0.1661D+00	0.2361D+00	-0.9737D+01	-0.6050D+02	-0.2156D-01	-0.9723D-01	0.5142D-02	0.3508D-03	0.6066D-04	
GRMUMH	-0.1209D+02	0.2682D+02	0.3812D+02	-0.1572D+04	-0.9769D+04	-0.3481D+01	-0.1570D+02	0.8301D+00	0.5663D-01	0.9795D-02	
TLK822	-0.1586D+03	0.3517D+03	0.4998D+03	-0.2061D+05	-0.1281D+06	-0.4564D+02	-0.2058D+03	0.1088D+02	0.7426D+00	0.1284D+00	
RFK822	0.1728D+01	-0.3833D+01	-0.5447D+01	0.2247D+03	0.1396D+04	0.4975D+00	0.2243D+01	-0.1186D+00	-0.8093D-02	-0.1400D-02	
SPK822	-0.1208D+02	0.2680D+02	0.3809D+02	-0.1571D+04	-0.9761D+04	-0.3478D+01	-0.1569D+02	0.8295D+00	0.5659D-01	0.9787D-02	
CSFMR822	0.2841D+02	-0.6302D+02	-0.8955D+02	0.3693D+04	0.2295D+05	0.8178D+01	0.3688D+02	-0.1950D+01	-0.1330D+00	-0.2301D-01	
LOIIND61	-0.5791D+00	0.1284D+01	0.1825D+01	-0.7527D+02	-0.4677D+03	-0.1667D+00	-0.7516D+00	0.3975D-01	0.2712D-02	0.4690D-03	
LOIAS	-0.7031D+00	0.1559D+01	0.2216D+01	-0.9139D+02	-0.5679D+03	-0.2024D+00	-0.9126D+00	0.4826D-01	0.3292D-02	0.5694D-03	
MOP62	-0.2368D+01	0.5253D+01	0.7464D+01	-0.3079D+03	-0.1913D+04	-0.6817D+00	-0.3074D+01	0.1626D+00	0.1109D-01	0.1918D-02	
VWMD	-0.1237D+01	0.2744D+01	0.3899D+01	-0.1608D+03	-0.9992D+03	-0.3560D+00	-0.1606D+01	0.8491D-01	0.5792D-02	0.1002D-02	
EX7	-0.2502D+07	0.5550D+07	0.7886D+07	-0.3252D+09	-0.2021D+10	-0.7201D+06	-0.3248D+07	0.1717D+06	0.1172D+05	0.2026D+04	
JO	0.1833D+02	-0.4065D+02	-0.5776D+02	0.2382D+04	0.1480D+05	0.5275D+01	0.2379D+02	-0.1258D+01	-0.8582D-01	-0.1484D-01	
PGRPKM	0.2850D-02	-0.6321D-02	-0.8982D-02	0.3704D+00	0.2302D+01	0.8203D-03	0.3699D-02	-0.1956D-03	-0.1334D-04	-0.2308D-05	
ENTRNMDC	-0.5906D+01	0.1310D+02	0.1862D+02	-0.7678D+03	-0.4771D+04	-0.1700D+01	-0.7667D+01	0.4054D+00	0.2766D-01	0.4783D-02	
FAD822	-0.2425D-01	0.5379D-01	0.7643D-01	-0.3152D+01	-0.1959D+02	-0.6980D-02	-0.3148D-01	0.1665D-02	0.1136D-03	0.1964D-04	
PCBNETT	-0.7585D+02	0.1682D+03	0.2390D+03	-0.9859D+04	-0.6126D+05	-0.2183D+02	-0.9845D+02	0.5206D+01	0.3552D+00	0.6143D-01	
AUPPOP	-0.1779D-01	0.3945D-01	0.5606D-01	-0.2312D+01	-0.1437D+02	-0.5120D-02	-0.2309D-01	0.1221D-02	0.8330D-04	0.1441D-04	
VUTGAPAD	-0.8436D-02	0.1871D-01	0.2659D-01	-0.1097D+01	-0.6814D+01	-0.2428D-02	-0.1095D-01	0.5790D-03	0.3950D-04	0.6832D-05	
PPAS	0.5915D-02	-0.1312D-01	-0.1864D-01	0.7688D+00	0.4777D+01	0.1702D-02	0.7677D-02	-0.4060D-03	-0.2770D-04	-0.4790D-05	
SURPOL	0.1000D+01	-0.2218D+01	-0.3152D+01	0.1300D+03	0.8077D+03	0.2878D+00	0.1298D+01	-0.6864D-01	-0.4683D-02	-0.8099D-03	
TW822	-0.4509D+00	0.1000D+01	0.1421D+01	-0.5861D+02	-0.3642D+03	-0.1298D+00	-0.5852D+00	0.3095D-01	0.2111D-02	0.3651D-03	
PERPA	-0.3173D+00	0.7037D+00	0.1000D+01	-0.4124D+02	-0.2563D+03	-0.9132D-01	-0.4118D+00	0.2178D-01	0.1486D-02	0.2570D-03	
PRCHOM	0.7693D-02	-0.1706D-01	-0.2425D-01	0.1000D+01	0.6214D+01	0.2214D-02	0.9986D-02	-0.5280D-03	-0.3602D-04	-0.6230D-05	

PRFEVM	0.1238D-02	-0.2746D-02	-0.3902D-02	0.1609D+00	0.1000D+01	0.3563D-03	0.1607D-02	-0.8498D-04	-0.5797D-05	-0.1003D-05					
PRMED	0.3474D+01	-0.7706D+01	-0.1095D+02	0.4516D+03	0.2806D+04	0.1000D+01	0.4510D+01	-0.2385D+00	-0.1627D-01	-0.2814D-02					
PRALT	0.7704D+00	-0.1709D+01	-0.2428D+01	0.1001D+03	0.6223D+03	0.2217D+00	0.1000D+01	-0.5288D-01	-0.3608D-02	-0.6239D-03					
EIQP	-0.1457D+02	0.3231D+02	0.4592D+02	-0.1894D+04	-0.1177D+05	-0.4193D+01	-0.1891D+02	0.1000D+01	0.6822D-01	0.1180D-01					
RSIDPQFE	-0.2136D+03	0.4737D+03	0.6731D+03	-0.2776D+05	-0.1725D+06	-0.6147D+02	-0.2772D+03	0.1466D+02	0.1000D+01	0.1730D+00					
LIVMADPE	-0.1235D+04	0.2739D+04	0.3892D+04	-0.1605D+06	-0.9974D+06	-0.3554D+03	-0.1603D+04	0.8475D+02	0.5782D+01	0.1000D+01					
WD	-0.2615D+01	0.5799D+01	0.8241D+01	-0.3399D+03	-0.2112D+04	-0.7526D+00	-0.3394D+01	0.1795D+00	0.1224D-01	0.2118D-02					
SAT	0.2596D+01	-0.5757D+01	-0.8181D+01	0.3374D+03	0.2097D+04	0.7471D+00	0.3369D+01	-0.1782D+00	-0.1215D-01	-0.2102D-02					
SHD	0.2007D+01	-0.4451D+01	-0.6324D+01	0.2608D+03	0.1621D+04	0.5776D+00	0.2605D+01	-0.1377D+00	-0.9396D-02	-0.1625D-02					
constant	0.2438D-02	-0.5406D-02	-0.7682D-02	0.3168D+00	0.1969D+01	0.7016D-03	0.3164D-02	-0.1673D-03	-0.1141D-04	-0.1974D-05					
=====															
	X (k)	WD	SAT	SHD	constant										
=====															
X (l)															
=====															
MOCYPAD	0.5254D+00	-0.5293D+00	-0.6847D+00	-0.5636D+03											
DISCEIN	0.2257D-01	-0.2274D-01	-0.2941D-01	-0.2421D+02											
LVCEI	-0.1514D+01	0.1525D+01	0.1973D+01	0.1624D+04											
P08PC	0.1539D+01	-0.1551D+01	-0.2006D+01	-0.1651D+04											
PTDEM	-0.1112D+01	0.1120D+01	0.1449D+01	0.1193D+04											
NCROUT04	-0.1287D+00	0.1296D+00	0.1677D+00	0.1380D+03											
GRPOL	-0.3631D+01	0.3658D+01	0.4732D+01	0.3896D+04											
STR813	0.4219D+01	-0.4250D+01	-0.5498D+01	-0.4526D+04											
STRP	0.1242D+01	-0.1251D+01	-0.1618D+01	-0.1332D+04											
STRCUQ	0.4762D+02	-0.4797D+02	-0.6205D+02	-0.5108D+05											
GRVOY	0.5265D+02	-0.5304D+02	-0.6861D+02	-0.5648D+05											
AUTPKRP	0.2865D-01	-0.2886D-01	-0.3733D-01	-0.3073D+02											
GRMUMH	0.4625D+01	-0.4659D+01	-0.6027D+01	-0.4962D+04											
TLK822	0.6065D+02	-0.6110D+02	-0.7903D+02	-0.6506D+05											
RFK822	-0.6610D+00	0.6659D+00	0.8613D+00	0.7091D+03											
SFK822	0.4622D+01	-0.4656D+01	-0.6022D+01	-0.4958D+04											
CSFMR822	-0.1087D+02	0.1095D+02	0.1416D+02	0.1166D+05											
LOIIND61	0.2215D+00	-0.2231D+00	-0.2886D+00	-0.2376D+03											
LOIAS	0.2689D+00	-0.2709D+00	-0.3504D+00	-0.2884D+03											
MOP62	0.9058D+00	-0.9124D+00	-0.1180D+01	-0.9716D+03											
VWMD	0.4731D+00	-0.4766D+00	-0.6165D+00	-0.5075D+03											
EX7	0.9569D+06	-0.9640D+06	-0.1247D+07	-0.1026D+10											
JO	-0.7009D+01	0.7061D+01	0.9133D+01	0.7519D+04											
PGRPKM	-0.1090D-02	0.1098D-02	0.1420D-02	0.1169D+01											
ENTRNMD	0.2259D+01	-0.2276D+01	-0.2943D+01	-0.2423D+04											
FAD822	0.9274D-02	-0.9343D-02	-0.1208D-01	-0.9949D+01											
PCBNETT	0.2901D+02	-0.2922D+02	-0.3780D+02	-0.3112D+05											
AUPPOP	0.6803D-02	-0.6853D-02	-0.8865D-02	-0.7298D+01											
VUTGAPAD	0.3226D-02	-0.3250D-02	-0.4204D-02	-0.3461D+01											
FPAS	-0.2262D-02	0.2279D-02	0.2948D-02	0.2426D+01											
SURPOL	-0.3824D+00	0.3853D+00	0.4983D+00	0.4103D+03											
TW822	0.1724D+00	-0.1737D+00	-0.2247D+00	-0.1850D+03											
PERPA	0.1213D+00	-0.1222D+00	-0.1581D+00	-0.1302D+03											
PRCHOM	-0.2942D-02	0.2964D-02	0.3834D-02	0.3156D+01											
PRFEVM	-0.4735D-03	0.4770D-03	0.6170D-03	0.5079D+00											
PRMED	-0.1329D+01	0.1339D+01	0.1731D+01	0.1425D+04											
PRALT	-0.2946D+00	0.2968D+00	0.3839D+00	0.3161D+03											
EIQP	0.5572D+01	-0.5613D+01	-0.7260D+01	-0.5977D+04											

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RSIDPQFE      0.8167D+02 -0.8228D+02 -0.1064D+03 -0.8761D+05
LIVMADPE      0.4722D+03 -0.4757D+03 -0.6154D+03 -0.5066D+06
WD            0.1000D+01 -0.1007D+01 -0.1303D+01 -0.1073D+04
SAT           -0.9927D+00  0.1000D+01  0.1294D+01  0.1065D+04
SHD           -0.7674D+00  0.7731D+00  0.1000D+01  0.8232D+03
constant      -0.9322D-03  0.9391D-03  0.1215D-02  0.1000D+01

```

Log-likelihood

```

- initial value :    -5435.5785
- final value   :    -5423.6372
- ratio test    :         23.8826

```

```

Pearson-r2      :         0.9868
Pearson-r2 bar  :         0.9844
Pseudo-(1)-r2   :         0.9878
Pseudo-(1)-r2 bar :        0.9856
Std-error of (w) :       17336.6251

```

Number of observations first-last obs.no.

```

- sample        :    313          1 -    313
- estimation     :    300          14 -    313

```

CPU TIME: 0.48 sec

Output file 2: DICR1_bc1au.txt

```

&CARD1
NOBS   =      313,
NC     =       14,
NF     =      313,
NFP    =      313,
NOBEL  =       12,
NM     =        0,
NSTEP  =      500,
EPSI   =  1.000000000000000E-007,
WGHT   =  1.000000000000000
/
&CARD2
NB     =       30,
NRO    =        6,
NSL    =       19,
NGF    =        0,
MAXF   =        0,
NGV    =        1,
MAXV   =       11,
NLY    =        2,
NDM    =       -1,
NLE    =        0,
ND     =        0
/
&CARD3
NCOR   =        0,
NRES   =        0,
NPW    =        0,
NGUVW  =        0,
NPDQL  =        0,
NCOV   =        0,
NEY    =        0,
VARNAME = di_bc1au ,
NVIANT  =          11
/

```

Working space used : 25758 out of 500000

```

autocorrelation of orders:      1          3          7          8
                               9         12
rho initial values:  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000

```

group (x) without box-cox transformation
variable no.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

group 1 (estimated lambda(x))
initial value: 1.00000000000000
variable no.
20 21 22 23 24 25 26 27 28 29 30

lambda(y) is set equal to lambda(x) of group no. 1
lambda(y) initial value: 1.00000000000000
upper limit for y 0.00000000000000E+000

no.	variable	minimum	mean	maximum	null obs.
	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	LIVMAD	0.47786D+06	0.87654D+06	0.13120D+07	0
21	IPDRQO	0.78203D-01	0.91116D-01	0.13951D+00	0
22	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
23	VUTDIPAD	0.27739D-02	0.71844D-02	0.12592D-01	0
24	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
25	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
26	RSIDPQ	0.19204D+06	0.37328D+06	0.65847D+06	0
27	VEHSF	0.14328D+06	0.39062D+06	0.51750D+06	0
28	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
29	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
30	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
31	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)		y(sample)	E(y)	
								SIGMA(y)			SIGMA(y)	
								GAMMA(y)			GAMMA(y)	
							-first obs	14		-first obs	302	
							-last obs	313		-last obs	313	
1 DISCEIN	NL	0	0.1678936D+08	0.4581333D+00	0.1354147D+08	1.2398	0.1250	0.1250		0.1583	0.1564	
								0.0000			0.0000	
								0.3898			0.4751	
2 LVCEI	NL	0	0.1463004D+08	0.2558333D+00	0.3284288D+07	4.4546	0.0608	0.0608	0.1380		0.1363	
								0.0000			0.0000	
								0.1897			0.4140	
3 P08PC	NL	0	0.6217658D+07	0.5233333D+00	0.3372214D+07	1.8438	0.0529	0.0529	0.0586		0.0579	
								0.0000			0.0000	
								0.1649			0.1759	
4 PTDEM	NL	0	0.9590173D+07	0.3933333D+00	0.4286516D+07	2.2373	0.0613	0.0613	0.0904		0.0894	
								0.0000			0.0000	
								0.1912			0.2714	
5 NCROUT04	NL	0	-0.7143316D+07	0.3000000D-01	0.5079097D+07	-1.4064	-0.0035	-0.0035	-0.0505		-0.0499	
								0.0000			0.0000	
								-0.0109			-0.1516	
6 GRPOL	NL	0	-0.3509785D+07	0.1055554D-01	0.3896458D+07	-0.9008	-0.0006	-0.0006	0.0000		0.0000	
								0.0000			0.0000	
								-0.0019			0.0000	
7 STR813	NL	0	0.3025294D+06	0.4733333D+00	0.4429934D+06	0.6829	0.0023	0.0023	0.0031		0.0031	
								0.0000			0.0000	
								0.0073			0.0093	
8 STRP	NL	0	0.5148048D+06	0.1266667D+00	0.4362547D+06	1.1801	0.0011	0.0011	0.0032		0.0032	
								0.0000			0.0000	
								0.0033			0.0097	
9 STRCUQ	NL	0	-0.1104087D+06	0.1300000D+01	0.1082722D+06	-1.0197	-0.0023	-0.0023	-0.0013		-0.0013	
								0.0000			0.0000	
								-0.0073			-0.0039	
10 GRVOY	NL	0	-0.1816401D+06	0.7900000D+00	0.1254745D+06	-1.4476	-0.0023	-0.0023	0.0000		0.0000	
								0.0000			0.0000	
								-0.0073			0.0000	
11 AUTPKRP	NL	0	-0.9720444D+07	0.3251368D+00	0.2146096D+08	-0.4529	-0.0514	-0.0514	-0.0471		-0.0465	
								0.0000			0.0000	
								-0.1602			-0.1413	
12 GRMUMH	NL	0	-0.3289608D+06	0.1716667D+00	0.3145803D+06	-1.0457	-0.0009	-0.0009	0.0000		0.0000	
								0.0000			0.0000	
								-0.0029			0.0000	
13 TLK822	NL	0	0.1364118D+05	0.1928373D+03	0.7761199D+04	1.7576	0.0428	0.0428	0.0242		0.0240	
								0.0000			0.0000	
								0.1333			0.0728	
14 RFK822	NL	0	0.5470884D+06	0.7708521D+00	0.1359296D+07	0.4025	0.0069	0.0069	0.0039		0.0039	
								0.0000			0.0000	
								0.0214			0.0117	

15	SFK822	NL	0	-0.2197218D+06	0.2509268D+01	0.2838124D+06	-0.7742	-0.0090	-0.0090	-0.0034	-0.0033
									0.0000		0.0000
16	CSFMR822	NL	0	0.9376806D+05	0.2353299D+02	0.3259926D+05	2.8764	0.0359	-0.0279	0.0177	-0.0102
									0.0359		0.0175
									0.0000		0.0000
									0.1118		0.0531
17	LOIIND61	NL	0	0.3841423D+06	0.8600000D+00	0.3549438D+07	0.1082	0.0054	0.0054	0.0036	0.0036
									0.0000		0.0000
									0.0167		0.0109
18	LOIAS	NL	0	-0.3671870D+07	0.1933333D+00	0.4508434D+07	-0.8144	-0.0115	-0.0115	-0.0346	-0.0342
									0.0000		0.0000
									-0.0360		-0.1039
19	MOP62	NL	0	0.9885165D+06	0.8200000D+00	0.3477215D+07	0.2843	0.0132	0.0132	0.0093	0.0092
									0.0000		0.0000
									0.0411		0.0280
20	LIVMAD	EL	1	0.4165748D+02	0.8906656D+06	0.1350225D+02	3.0852	0.6032	0.6032	0.4373	0.4321
									0.0000		0.0000
									1.8805		1.3122
21	IPDRQO	EL	1	-0.8757302D+07	0.9133176D-01	0.9001709D+08	-0.0973	-0.0130	-0.0130	-0.0112	-0.0111
									0.0000		0.0000
									-0.0405		-0.0337
22	ENTRNMDC	EL	1	-0.1158313D+06	0.6295400D+02	0.2691598D+06	-0.4303	-0.1185	-0.1185	-0.0881	-0.0870
									0.0000		0.0000
									-0.3696		-0.2643
23	VUTDIPAD	EL	1	0.4230418D+10	0.7370645D-02	0.1542459D+10	2.7426	0.5069	0.5069	0.4177	0.4127
									0.0000		0.0000
									1.5803		1.2533
24	SURPOL	EL	1	-0.1142052D+07	0.8257199D+01	0.9909074D+06	-1.1525	-0.1533	-0.1533	-0.0829	-0.0820
									0.0000		0.0000
									-0.4779		-0.2489
25	PRALT	EL	1	-0.2008619D+08	0.7172662D+00	0.8760643D+07	-2.2928	-0.2342	-0.2342	-0.1458	-0.1441
									0.0000		0.0000
									-0.7302		-0.4375
26	RSIDPQ	EL	1	0.7950780D+02	0.3791653D+06	0.2494352D+02	3.1875	0.4901	0.4901	0.3511	0.3469
									0.0000		0.0000
									1.5279		1.0536
27	VEHSF	EL	1	0.1526056D+02	0.3941999D+06	0.2878631D+02	0.5301	0.0978	0.0978	0.0522	0.0516
									0.0000		0.0000
									0.3049		0.1566
28	WD	EL	1	-0.1116371D+07	0.2086000D+02	0.8943863D+06	-1.2482	-0.3786	-0.3786	-0.2211	-0.2184
									0.0000		0.0000
									-1.1803		-0.6634
29	SAT	EL	1	-0.1756521D+07	0.4346667D+01	0.1343377D+07	-1.3075	-0.1241	-0.1241	-0.0718	-0.0709
									0.0000		0.0000
									-0.3870		-0.2154
30	SHD	EL	1	-0.1803483D+07	0.5226667D+01	0.1019923D+07	-1.7683	-0.1532	-0.1532	-0.0864	-0.0854
									0.0000		0.0000
									-0.4777		-0.2594
31	constant	NL	0	0.4204932D+10	0.1000000D+01	0.1535855D+10	2.7378	68.3594	68.3594	39.6514	39.1793
									0.0021		0.0037
									213.1149		118.9836

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.1678936D+08	0.1678935D+08	0.7072748D+02	-0.1827917D-03
2 LVCEI	0.1463004D+08	0.1463003D+08	0.6163105D+02	-0.1592825D-03
3 P08PC	0.6217658D+07	0.6217655D+07	0.2619274D+02	-0.6769386D-04
4 PTDEM	0.9590173D+07	0.9590167D+07	0.4039992D+02	-0.1044116D-03
5 NCROUT04	-0.7143316D+07	-0.7143312D+07	-0.3009220D+02	0.7777182D-04
6 GRPOL	-0.3509785D+07	-0.3509783D+07	-0.1478545D+02	0.3821228D-04
7 STR813	0.3025294D+06	0.3025292D+06	0.1274447D+01	-0.3293745D-05
8 STRP	0.5148048D+06	0.5148045D+06	0.2168686D+01	-0.5604864D-05
9 STRCUQ	-0.1104087D+06	-0.1104086D+06	-0.4651116D+00	0.1202058D-05
10 GRVOY	-0.1816401D+06	-0.1816400D+06	-0.7651839D+00	0.1977580D-05
11 AUTPKRP	-0.9720444D+07	-0.9720439D+07	-0.4094871D+02	0.1058299D-03
12 GRMUMH	-0.3289608D+06	-0.3289606D+06	-0.1385793D+01	0.3581514D-05
13 TLK822	0.1364118D+05	0.1364117D+05	0.5746534D-01	-0.1485164D-06
14 RFK822	0.5470884D+06	0.5470881D+06	0.2304685D+01	-0.5956346D-05
15 SFK822	-0.2197218D+06	-0.2197217D+06	-0.9256083D+00	0.2392189D-05
16 CSFMR822	0.9376806D+05	0.9376801D+05	0.3950109D+00	-0.1020886D-05
17 LOIIND61	0.3841423D+06	0.3841420D+06	0.1618252D+01	-0.4182294D-05
18 LOIAS	-0.3671870D+07	-0.3671868D+07	-0.1546826D+02	0.3997696D-04

19	MOP62	0.9885165D+06	0.9885159D+06	0.4164262D+01	-0.1076233D-04
20	LIVMAD	0.4165748D+02	0.4165746D+02	0.1754879D-03	-0.4535399D-09
21	IPDRQO	-0.8757302D+07	-0.8757297D+07	-0.3689134D+02	0.9534386D-04
22	ENTRNMD	-0.1158313D+06	-0.1158312D+06	-0.4879553D+00	0.1261097D-05
23	VUTDIPAD	0.4230418D+10	0.4230416D+10	0.1782122D+05	-0.4605807D-01
24	SURPOL	-0.1142052D+07	-0.1142052D+07	-0.4811052D+01	0.1243393D-04
25	PRALT	-0.2008619D+08	-0.2008617D+08	-0.8461582D+02	0.2186855D-03
26	RSIDPQ	0.7950780D+02	0.7950775D+02	0.3349375D-03	-0.8656297D-09
27	VEHSF	0.1526056D+02	0.1526055D+02	0.6428720D-04	-0.1661471D-09
28	WD	-0.1116371D+07	-0.1116370D+07	-0.4702866D+01	0.1215433D-04
29	SAT	-0.1756521D+07	-0.1756520D+07	-0.7399585D+01	0.1912387D-04
30	SHD	-0.1803483D+07	-0.1803482D+07	-0.7597421D+01	0.1963516D-04
31	constant	0.4204932D+10	0.4204930D+10	0.1771386D+05	-0.4578060D-01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2374D+06	-0.9185D+11
SIGMA(y)	0.4213D-05	0.1000D+01	-0.3869D+06
GAMMA(y)	-0.1089D-10	-0.2584D-05	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.3231D+05	0.3208D+00
SIGMA(y)	0.3095D-04	0.1000D+01	0.9929D-05
GAMMA(y)	0.3118D+01	0.1007D+06	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.8714D+00	0.3703D+00	0.5712D+00	-0.4255D+00	-0.2090D+00	0.1802D-01	0.3066D-01	-0.6576D-02	-0.1082D-01
LVCEI		0.1148D+01	0.1000D+01	0.4250D+00	0.6555D+00	-0.4883D+00	-0.2399D+00	0.2068D-01	0.3519D-01	-0.7547D-02	-0.1242D-01
P08PC		0.2700D+01	0.2353D+01	0.1000D+01	0.1542D+01	-0.1149D+01	-0.5645D+00	0.4866D-01	0.8280D-01	-0.1776D-01	-0.2921D-01
PTDEM		0.1751D+01	0.1526D+01	0.6483D+00	0.1000D+01	-0.7449D+00	-0.3660D+00	0.3155D-01	0.5368D-01	-0.1151D-01	-0.1894D-01
NCROUT04		-0.2350D+01	-0.2048D+01	-0.8704D+00	-0.1343D+01	0.1000D+01	0.4913D+00	-0.4235D-01	-0.7207D-01	0.1546D-01	0.2543D-01
GRPOL		-0.4784D+01	-0.4168D+01	-0.1772D+01	-0.2732D+01	0.2035D+01	0.1000D+01	-0.8620D-01	-0.1467D+00	0.3146D-01	0.5175D-01
STR813		0.5550D+02	0.4836D+02	0.2055D+02	0.3170D+02	-0.2361D+02	-0.1160D+02	0.1000D+01	0.1702D+01	-0.3650D+00	-0.6004D+00
STRP		0.3261D+02	0.2842D+02	0.1208D+02	0.1863D+02	-0.1388D+02	-0.6818D+01	0.5877D+00	0.1000D+01	-0.2145D+00	-0.3528D+00
STRCUQ		-0.1521D+03	-0.1325D+03	-0.5631D+02	-0.8686D+02	0.6470D+02	0.3179D+02	-0.2740D+01	-0.4663D+01	0.1000D+01	0.1645D+01
GRVOY		-0.9243D+02	-0.8054D+02	-0.3423D+02	-0.5280D+02	0.3933D+02	0.1932D+02	-0.1666D+01	-0.2834D+01	0.6078D+00	0.1000D+01
AUTPKRP		-0.1727D+01	-0.1505D+01	-0.6396D+00	-0.9866D+00	0.7349D+00	0.3611D+00	-0.3112D-01	-0.5296D-01	0.1136D-01	0.1869D-01
GRMUMH		-0.5104D+02	-0.4447D+02	-0.1890D+02	-0.2915D+02	0.2171D+02	0.1067D+02	-0.9197D+00	-0.1565D+01	0.3356D+00	0.5522D+00
TLK822		0.1231D+04	0.1072D+04	0.4558D+03	0.7030D+03	-0.5237D+03	-0.2573D+03	0.2218D+02	0.3774D+02	-0.8094D+01	-0.1332D+02
RFK822		0.3069D+02	0.2674D+02	0.1136D+02	0.1753D+02	-0.1306D+02	-0.6415D+01	0.5530D+00	0.9410D+00	-0.2018D+00	-0.3320D+00
SFK822		-0.7641D+02	-0.6658D+02	-0.2830D+02	-0.4365D+02	0.3251D+02	0.1597D+02	-0.1377D+01	-0.2343D+01	0.5025D+00	0.8267D+00
CSFMR822		0.1791D+03	0.1560D+03	0.6631D+02	0.1023D+03	-0.7618D+02	-0.3743D+02	0.3226D+01	0.5490D+01	-0.1177D+01	-0.1937D+01
LOIIND61		0.4371D+02	0.3808D+02	0.1619D+02	0.2497D+02	-0.1860D+02	-0.9137D+01	0.7875D+00	0.1340D+01	-0.2874D+00	-0.4728D+00
LOIAS		-0.4572D+01	-0.3984D+01	-0.1693D+01	-0.2612D+01	0.1945D+01	0.9559D+00	-0.8239D-01	-0.1402D+00	0.3007D-01	0.4947D-01
MOP62		0.1698D+02	0.1480D+02	0.6290D+01	0.9702D+01	-0.7226D+01	-0.3551D+01	0.3060D+00	0.5208D+00	-0.1117D+00	-0.1838D+00
LIVMAD		0.4030D+06	0.3512D+06	0.1493D+06	0.2302D+06	-0.1715D+06	-0.8425D+05	0.7262D+04	0.1236D+05	-0.2650D+04	-0.4360D+04

IPDRQO	-0.1917D+01	-0.1671D+01	-0.7100D+00	-0.1095D+01	0.8157D+00	0.4008D+00	-0.3455D-01	-0.5879D-01	0.1261D-01	0.2074D-01	
ENTRNMDC	-0.1449D+03	-0.1263D+03	-0.5368D+02	-0.8279D+02	0.6167D+02	0.3030D+02	-0.2612D+01	-0.4444D+01	0.9532D+00	0.1568D+01	
VUTDIPAD	0.3969D-02	0.3458D-02	0.1470D-02	0.2267D-02	-0.1689D-02	-0.8297D-03	0.7151D-04	0.1217D-03	-0.2610D-04	-0.4294D-04	
SURPOL	-0.1470D+02	-0.1281D+02	-0.5444D+01	-0.8397D+01	0.6255D+01	0.3073D+01	-0.2649D+00	-0.4508D+00	0.9668D-01	0.1590D+00	
PRALT	-0.8359D+00	-0.7284D+00	-0.3095D+00	-0.4775D+00	0.3556D+00	0.1747D+00	-0.1506D-01	-0.2563D-01	0.5497D-02	0.9043D-02	
RSIDPQ	0.2112D+06	0.1840D+06	0.7820D+05	0.1206D+06	-0.8984D+05	-0.4414D+05	0.3805D+04	0.6475D+04	-0.1389D+04	-0.2285D+04	
VEHSF	0.1100D+07	0.9587D+06	0.4074D+06	0.6284D+06	-0.4681D+06	-0.2300D+06	0.1982D+05	0.3373D+05	-0.7235D+04	-0.1190D+05	
WD	-0.1504D+02	-0.1310D+02	-0.5570D+01	-0.8590D+01	0.6399D+01	0.3144D+01	-0.2710D+00	-0.4611D+00	0.9890D-01	0.1627D+00	
SAT	-0.9558D+01	-0.8329D+01	-0.3540D+01	-0.5460D+01	0.4067D+01	0.1998D+01	-0.1722D+00	-0.2931D+00	0.6286D-01	0.1034D+00	
SHD	-0.9309D+01	-0.8112D+01	-0.3448D+01	-0.5318D+01	0.3961D+01	0.1946D+01	-0.1677D+00	-0.2855D+00	0.6122D-01	0.1007D+00	
constant	0.3993D-02	0.3479D-02	0.1479D-02	0.2281D-02	-0.1699D-02	-0.8347D-03	0.7195D-04	0.1224D-03	-0.2626D-04	-0.4320D-04	
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	LIVMAD
DISCEIN	-0.5790D+00	-0.1959D-01	0.8125D-03	0.3259D-01	-0.1309D-01	0.5585D-02	0.2288D-01	-0.2187D+00	0.5888D-01	0.2481D-05	
LVCEI	-0.6644D+00	-0.2249D-01	0.9324D-03	0.3739D-01	-0.1502D-01	0.6409D-02	0.2626D-01	-0.2510D+00	0.6757D-01	0.2847D-05	
P08PC	-0.1563D+01	-0.5291D-01	0.2194D-02	0.8799D-01	-0.3534D-01	0.1508D-01	0.6178D-01	-0.5906D+00	0.1590D+00	0.6700D-05	
PTDEM	-0.1014D+01	-0.3430D-01	0.1422D-02	0.5705D-01	-0.2291D-01	0.9778D-02	0.4006D-01	-0.3829D+00	0.1031D+00	0.4344D-05	
NCROUT04	0.1361D+01	0.4605D-01	-0.1910D-02	-0.7659D-01	0.3076D-01	-0.1313D-01	-0.5378D-01	0.5140D+00	-0.1384D+00	-0.5832D-05	
GRPOL	0.2770D+01	0.9373D-01	-0.3887D-02	-0.1559D+00	0.6260D-01	-0.2672D-01	-0.1094D+00	0.1046D+01	-0.2816D+00	-0.1187D-04	
STR813	-0.3213D+02	-0.1087D+01	0.4509D-01	0.1808D+01	-0.7263D+00	0.3099D+00	0.1270D+01	-0.1214D+02	0.3268D+01	0.1377D-03	
STRP	-0.1888D+02	-0.6390D+00	0.2650D-01	0.1063D+01	-0.4268D+00	0.1821D+00	0.7462D+00	-0.7133D+01	0.1920D+01	0.8092D-04	
STRCUQ	0.8804D+02	0.2979D+01	-0.1236D+00	-0.4955D+01	0.1990D+01	-0.8493D+00	-0.3479D+01	0.3326D+02	-0.8953D+01	-0.3773D-03	
GRVOY	0.5351D+02	0.1811D+01	-0.7510D-01	-0.3012D+01	0.1210D+01	-0.5162D+00	-0.2115D+01	0.2022D+02	-0.5442D+01	-0.2293D-03	
AUTPKRP	0.1000D+01	0.3384D-01	-0.1403D-02	-0.5628D-01	0.2260D-01	-0.9646D-02	-0.3952D-01	0.3777D+00	-0.1017D+00	-0.4286D-05	
GRMUMH	0.2955D+02	0.1000D+01	-0.4147D-01	-0.1663D+01	0.6679D+00	-0.2850D+00	-0.1168D+01	0.1116D+02	-0.3005D+01	-0.1266D-03	
TLK822	-0.7126D+03	-0.2412D+02	0.1000D+01	0.4011D+02	-0.1611D+02	0.6874D+01	0.2816D+02	-0.2692D+03	0.7247D+02	0.3054D-02	
RFK822	-0.1777D+02	-0.6013D+00	0.2493D-01	0.1000D+01	-0.4016D+00	0.1714D+00	0.7022D+00	-0.6712D+01	0.1807D+01	0.7614D-04	
SFK822	0.4424D+02	0.1497D+01	-0.6208D-01	-0.2490D+01	0.1000D+01	-0.4268D+00	-0.1748D+01	0.1671D+02	-0.4499D+01	-0.1896D-03	
CSFMR822	-0.1037D+03	-0.3508D+01	0.1455D+00	0.5834D+01	-0.2343D+01	0.1000D+01	0.4097D+01	-0.3916D+02	0.1054D+02	0.4443D-03	
LOIIND61	-0.2530D+02	-0.8564D+00	0.3551D-01	0.1424D+01	-0.5720D+00	0.2441D+00	0.1000D+01	-0.9559D+01	0.2573D+01	0.1084D-03	
LOIAS	0.2647D+01	0.8959D-01	-0.3715D-02	-0.1490D+00	0.5984D-01	-0.2554D-01	-0.1046D+00	0.1000D+01	-0.2692D+00	-0.1135D-04	
MOP62	-0.9833D+01	-0.3328D+00	0.1380D-01	0.5534D+00	-0.2223D+00	0.9486D-01	0.3886D+00	-0.3715D+01	0.1000D+01	0.4214D-04	
LIVMAD	-0.2333D+06	-0.7897D+04	0.3275D+03	0.1313D+05	-0.5274D+04	0.2251D+04	0.9221D+04	-0.8814D+05	0.2373D+05	0.1000D+01	
IPDRQO	0.1110D+01	0.3756D-01	-0.1558D-02	-0.6247D-01	0.2509D-01	-0.1071D-01	-0.4387D-01	0.4193D+00	-0.1129D+00	-0.4757D-05	
ENTRNMDC	0.8392D+02	0.2840D+01	-0.1178D+00	-0.4723D+01	0.1897D+01	-0.8095D+00	-0.3316D+01	0.3170D+02	-0.8534D+01	-0.3596D-03	
VUTDIPAD	-0.2298D-02	-0.7776D-04	0.3225D-05	0.1293D-03	-0.5194D-04	0.2217D-04	0.9080D-04	-0.8680D-03	0.2337D-03	0.9847D-08	
SURPOL	0.8511D+01	0.2880D+00	-0.1194D-01	-0.4790D+00	0.1924D+00	-0.8210D-01	-0.3364D+00	0.3215D+01	-0.8656D+00	-0.3648D-04	
PRALT	0.4839D+00	0.1638D-01	-0.6791D-03	-0.2724D-01	0.1094D-01	-0.4668D-02	-0.1912D-01	0.1828D+00	-0.4921D-01	-0.2074D-05	
RSIDPQ	-0.1223D+06	-0.4137D+04	0.1716D+03	0.6881D+04	-0.2764D+04	0.1179D+04	0.4832D+04	-0.4618D+05	0.1243D+05	0.5239D+00	
VEHSF	-0.6370D+06	-0.2156D+05	0.8939D+03	0.3585D+05	-0.1440D+05	0.6144D+04	0.2517D+05	-0.2406D+06	0.6478D+05	0.2730D+01	
WD	0.8707D+01	0.2947D+00	-0.1222D-01	-0.4901D+00	0.1968D+00	-0.8399D-01	-0.3441D+00	0.3289D+01	-0.8855D+00	-0.3732D-04	
SAT	0.5534D+01	0.1873D+00	-0.7766D-02	-0.3115D+00	0.1251D+00	-0.5338D-01	-0.2187D+00	0.2090D+01	-0.5628D+00	-0.2372D-04	
SHD	0.5390D+01	0.1824D+00	-0.7564D-02	-0.3034D+00	0.1218D+00	-0.5199D-01	-0.2130D+00	0.2036D+01	-0.5481D+00	-0.2310D-04	
constant	-0.2312D-02	-0.7823D-04	0.3244D-05	0.1301D-03	-0.5225D-04	0.2230D-04	0.9136D-04	-0.8732D-03	0.2351D-03	0.9907D-08	
X(1)	X(k)	IPDRQO	ENTRNMDC	VUTDIPAD	SURPOL	PRALT	RSIDPQ	VEHSF	WD	SAT	SHD
DISCEIN	-0.5216D+00	-0.6899D-02	0.2520D+03	-0.6802D-01	-0.1196D+01	0.4736D-05	0.9089D-06	-0.6649D-01	-0.1046D+00	-0.1074D+00	
LVCEI	-0.5986D+00	-0.7917D-02	0.2892D+03	-0.7806D-01	-0.1373D+01	0.5435D-05	0.1043D-05	-0.7631D-01	-0.1201D+00	-0.1233D+00	
P08PC	-0.1408D+01	-0.1863D-01	0.6804D+03	-0.1837D+00	-0.3231D+01	0.1279D-04	0.2454D-05	-0.1795D+00	-0.2825D+00	-0.2901D+00	
PTDEM	-0.9132D+00	-0.1208D-01	0.4411D+03	-0.1191D+00	-0.2094D+01	0.8291D-05	0.1591D-05	-0.1164D+00	-0.1832D+00	-0.1881D+00	

NCR0UT04	0.1226D+01	0.1622D-01	-0.5922D+03	0.1599D+00	0.2812D+01	-0.1113D-04	-0.2136D-05	0.1563D+00	0.2459D+00	0.2525D+00
GRPOL	0.2495D+01	0.3300D-01	-0.1205D+04	0.3254D+00	0.5723D+01	-0.2265D-04	-0.4348D-05	0.3181D+00	0.5005D+00	0.5138D+00
STR813	-0.2895D+02	-0.3829D+00	0.1398D+05	-0.3775D+01	-0.6639D+02	0.2628D-03	0.5044D-04	-0.3690D+01	-0.5806D+01	-0.5961D+01
STRP	-0.1701D+02	-0.2250D+00	0.8218D+04	-0.2218D+01	-0.3902D+02	0.1544D-03	0.2964D-04	-0.2169D+01	-0.3412D+01	-0.3503D+01
STRCUQ	0.7932D+02	0.1049D+01	-0.3832D+05	0.1034D+02	0.1819D+03	-0.7201D-03	-0.1382D-03	0.1011D+02	0.1591D+02	0.1633D+02
GRVOY	0.4821D+02	0.6377D+00	-0.2329D+05	0.6287D+01	0.1106D+03	-0.4377D-03	-0.8402D-04	0.6146D+01	0.9670D+01	0.9929D+01
AUTPKRP	0.9009D+00	0.1192D-01	-0.4352D+03	0.1175D+00	0.2066D+01	-0.8179D-05	-0.1570D-05	0.1148D+00	0.1807D+00	0.1855D+00
GRMUMH	0.2662D+02	0.3521D+00	-0.1286D+05	0.3472D+01	0.6106D+02	-0.2417D-03	-0.4639D-04	0.3394D+01	0.5340D+01	0.5482D+01
TLK822	-0.6420D+03	-0.8491D+01	0.3101D+06	-0.8372D+02	-0.1472D+04	0.5829D-02	0.1119D-02	-0.8184D+02	-0.1288D+03	-0.1322D+03
RFK822	-0.1601D+02	-0.2117D+00	0.7733D+04	-0.2088D+01	-0.3671D+02	0.1453D-03	0.2789D-04	-0.2041D+01	-0.3211D+01	-0.3297D+01
SFK822	0.3986D+02	0.5272D+00	-0.1925D+05	0.5198D+01	0.9142D+02	-0.3619D-03	-0.6945D-04	0.5081D+01	0.7994D+01	0.8208D+01
CSFMR822	-0.9339D+02	-0.1235D+01	0.4512D+05	-0.1218D+02	-0.2142D+03	0.8479D-03	0.1627D-03	-0.1191D+02	-0.1873D+02	-0.1923D+02
LOIIND61	-0.2280D+02	-0.3015D+00	0.1101D+05	-0.2973D+01	-0.5229D+02	0.2070D-03	0.3973D-04	-0.2906D+01	-0.4573D+01	-0.4695D+01
LOIAS	0.2385D+01	0.3155D-01	-0.1152D+04	0.3110D+00	0.5470D+01	-0.2165D-04	-0.4156D-05	0.3040D+00	0.4784D+00	0.4912D+00
MOP62	-0.8859D+01	-0.1172D+00	0.4280D+04	-0.1155D+01	-0.2032D+02	0.8043D-04	0.1544D-04	-0.1129D+01	-0.1777D+01	-0.1824D+01
LIVMAD	-0.2102D+06	-0.2781D+04	0.1016D+09	-0.2742D+05	-0.4822D+06	0.1909D+01	0.3663D+00	-0.2680D+05	-0.4217D+05	-0.4329D+05
IPDRQO	0.1000D+01	0.1323D-01	-0.4831D+03	0.1304D+00	0.2294D+01	-0.9079D-05	-0.1743D-05	0.1275D+00	0.2006D+00	0.2059D+00
ENTRNMDC	0.7560D+02	0.1000D+01	-0.3652D+05	0.9860D+01	0.1734D+03	-0.6864D-03	-0.1317D-03	0.9638D+01	0.1516D+02	0.1557D+02
VUTDIPAD	-0.2070D-02	-0.2738D-04	0.1000D+01	-0.2700D-03	-0.4748D-02	0.1879D-07	0.3607D-08	-0.2639D-03	-0.4152D-03	-0.4263D-03
SURPOL	0.7668D+01	0.1014D+00	-0.3704D+04	0.1000D+01	0.1759D+02	-0.6962D-04	-0.1336D-04	0.9775D+00	0.1538D+01	0.1579D+01
PRALT	0.4360D+00	0.5767D-02	-0.2106D+03	0.5686D-01	0.1000D+01	-0.3958D-05	-0.7598D-06	0.5558D-01	0.8745D-01	0.8979D-01
RSIDPQ	-0.1101D+06	-0.1457D+04	0.5321D+08	-0.1436D+05	-0.2526D+06	0.1000D+01	0.1919D+00	-0.1404D+05	-0.2209D+05	-0.2268D+05
VEHSF	-0.5739D+06	-0.7590D+04	0.2772D+09	-0.7484D+05	-0.1316D+07	0.5210D+01	0.1000D+01	-0.7315D+05	-0.1151D+06	-0.1182D+06
WD	0.7844D+01	0.1038D+00	-0.3789D+04	0.1023D+01	0.1799D+02	-0.7122D-04	-0.1367D-04	0.1000D+01	0.1573D+01	0.1615D+01
SAT	0.4986D+01	0.6594D-01	-0.2408D+04	0.6502D+00	0.1144D+02	-0.4526D-04	-0.8688D-05	0.6356D+00	0.1000D+01	0.1027D+01
SHD	0.4856D+01	0.6423D-01	-0.2346D+04	0.6332D+00	0.1114D+02	-0.4409D-04	-0.8462D-05	0.6190D+00	0.9740D+00	0.1000D+01
constant	-0.2083D-02	-0.2755D-04	0.1006D+01	-0.2716D-03	-0.4777D-02	0.1891D-07	0.3629D-08	-0.2655D-03	-0.4177D-03	-0.4289D-03
=====										
X(k) constant										
=====										
X(l)										
=====										
DISCEIN	0.2505D+03									
LVCEI	0.2874D+03									
P08PC	0.6763D+03									
PTDEM	0.4385D+03									
NCR0UT04	-0.5887D+03									
GRPOL	-0.1198D+04									
STR813	0.1390D+05									
STRP	0.8168D+04									
STRCUQ	-0.3809D+05									
GRVOY	-0.2315D+05									
AUTPKRP	-0.4326D+03									
GRMUMH	-0.1278D+05									
TLK822	0.3083D+06									
RFK822	0.7686D+04									
SFK822	-0.1914D+05									
CSFMR822	0.4484D+05									
LOIIND61	0.1095D+05									
LOIAS	-0.1145D+04									
MOP62	0.4254D+04									
LIVMAD	0.1009D+09									
IPDRQO	-0.4802D+03									

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ENTRNMDC      -0.3630D+05
VUTDIPAD       0.9940D+00
SURPOL        -0.3682D+04
PRALT         -0.2093D+03
RSIDPQ         0.5289D+08
VEHSF         0.2755D+09
WD            -0.3767D+04
SAT           -0.2394D+04
SHD           -0.2332D+04
constant       0.1000D+01

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Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0118

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.6151215D+08	0.6156169D+08
STD.ERROR	0.3980085D+08	0.3884109D+08
SKEWNESS	0.3587104	0.3490691

E(y) at the means : 0.6151211D+08

Sig(y) at the means : 0.8371260D+07

C.o.V. at the means : 0.1360913

Gam(y) at the means : -0.0002148

Pearson-R2 : 0.9556980

Pearson-R2 bar : 0.9507572

Pseudo-(1)-R2 : 0.9556146

Pseudo-(1)-R2 bar : 0.9506645

Error Variance : 0.7007691D+14

Log-likelihood : -0.5207774D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

7	500	0.1D+01	0.1D-06						
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.10000D+01		
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01		
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00		

first entry to fcn , parameters of current step follow - - f,x(i)

-0.3184304846D+03	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.10000D+01
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new absolute minimum , parameters for fcn entry 5 follow - - f,x(i)

-0.3772412983D+03	0.40181D+00	0.18629D+00	-0.13515D+00	0.25561D-01	0.77889D-01	0.22167D+00	0.73862D+00
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new absolute minimum , parameters for fcn entry 8 follow - - f,x(i)

-0.3844855867D+03	0.44251D+00	0.12842D+00	-0.15771D+00	0.16150D+00	0.14533D+00	0.20810D+00	0.62298D+00
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new absolute minimum , parameters for fcn entry 11 follow - - f,x(i)

-0.3867498522D+03	0.46744D+00	0.95481D-01	-0.23324D+00	0.20046D+00	0.10899D+00	0.15728D+00	0.56813D+00
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new absolute minimum , parameters for fcn entry 14 follow - - f,x(i)

-0.3873795083D+03	0.48410D+00	0.11843D+00	-0.24349D+00	0.25780D+00	0.73151D-01	0.13935D+00	0.57938D+00
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new absolute minimum , parameters for fcn entry 16 follow - - f,x(i)

-0.3874104887D+03	0.48781D+00	0.10848D+00	-0.24341D+00	0.26256D+00	0.64347D-01	0.14913D+00	0.58329D+00
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new absolute minimum , parameters for fcn entry 18 follow - - f,x(i)

-0.3874142624D+03	0.48858D+00	0.10732D+00	-0.23978D+00	0.26239D+00	0.60744D-01	0.14945D+00	0.58086D+00
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new absolute minimum , parameters for fcn entry 20 follow - - f,x(i)

-0.3874144930D+03	0.48960D+00	0.10683D+00	-0.23926D+00	0.26222D+00	0.60869D-01	0.14881D+00	0.58125D+00
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new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)

-0.3874232037D+03	0.49104D+00	0.10624D+00	-0.23780D+00	0.26637D+00	0.63287D-01	0.15002D+00	0.57904D+00
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new absolute minimum , parameters for fcn entry 24 follow - - f,x(i)

-0.3874232939D+03	0.49148D+00	0.10658D+00	-0.23763D+00	0.26623D+00	0.63294D-01	0.15023D+00	0.57916D+00
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new absolute minimum , parameters for fcn entry 25 follow - - f,x(i)

-0.3874232944D+03	0.49144D+00	0.10659D+00	-0.23761D+00	0.26621D+00	0.63293D-01	0.15024D+00	0.57920D+00
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new absolute minimum , parameters for fcn entry 26 follow - - f,x(i)

-0.3874232944D+03	0.49144D+00	0.10659D+00	-0.23761D+00	0.26621D+00	0.63294D-01	0.15024D+00	0.57920D+00
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new absolute minimum , parameters for fcn entry 27 follow - - f,x(i)

-0.3874232944D+03	0.49144D+00	0.10659D+00	-0.23761D+00	0.26621D+00	0.63294D-01	0.15024D+00	0.57920D+00
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the function (fcu) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -
 therefore the run has been terminated
 -0.3874232944D+03 0.49144D+00 0.10659D+00 -0.23761D+00 0.26621D+00 0.63294D-01 0.15024D+00 0.57920D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcu) was -0.3874232944D+03 for entry 27 - - x(i) follows
 0.49144D+00 0.10659D+00 -0.23761D+00 0.26621D+00 0.63294D-01 0.15024D+00 0.57920D+00

run statistics follow - -

nfcu= 31 nst= 13

Mean probability of y to be at the lower (upper) limit
 if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.6151215D+08	0.6154389D+08
STD.ERROR	0.3980085D+08	0.3930800D+08
SKEWNESS	0.3587104	0.3360050

E(y) at the means : 0.6077126D+08

Sig(y) at the means : 0.7415964D+07

C.o.V. at the means : 0.1220308

Gam(y) at the means : 0.1540625

Pearson-R2 : 0.9660334

Pearson-R2 bar : 0.9612366

Pseudo-(1)-R2 : 0.5961793

Pseudo-(1)-R2 bar : 0.5391512

Error Variance : 0.1550657D+08

Log-likelihood : -0.5138781D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y) SIGMA(y) GAMMA(y)	y(sample)	E(y) SIGMA(y) GAMMA(y)
							-first obs -last obs	14 313	-first obs -last obs	302 313
1 DISCEIN	NL	0	0.1876156D+05	0.2420397D-12	0.2189890D+05 0.1285801D+05	0.8567 1.4591	0.2648	0.2662 0.1124	0.4216	0.4198 0.1770
2 LVCEI	NL	0	0.7277484D+04	0.1465229D-12	0.8656310D+04 0.3374000D+04	0.8407 2.1569	0.0574	-0.1558 0.0577 0.0243	0.1635	-0.2507 0.1628 0.0686
3 P08PC	NL	0	0.1462019D+04	0.2725131D-12	0.4280662D+04 0.4039717D+04	0.3415 0.3619	0.0236	-0.0337 0.0237 0.0100	0.0329	-0.0973 0.0327 0.0138
4 PTDEM	NL	0	0.5146235D+04	0.2115470D-12	0.6082276D+04 0.3304434D+04	0.8461 1.5574	0.0624	-0.0139 0.0627 0.0265	0.1157	-0.0195 0.1151 0.0485
5 NCROUT04	NL	0	-0.5254753D+04	0.3866776D-13	0.6661189D+04 0.4283323D+04	-0.7889 -1.2268	-0.0049	-0.0367 -0.0049 -0.0021	-0.0886	-0.0688 -0.0882 -0.0372
6 GRPOL	NL	0	-0.1315697D+04	0.4810292D-14	0.4340359D+04 0.4170769D+04	-0.3031 -0.3155	-0.0004	0.0029 -0.0004 -0.0002	0.0000	0.0527 0.0000 0.0000
7 STR813	NL	0	0.2194201D+03	0.2420191D-12	0.3872715D+03 0.3267539D+03	0.5666 0.6715	0.0032	0.0003 0.0032 0.0014	0.0053	0.0000 0.0053 0.0022
8 STRP	NL	0	0.3489517D+03	0.7393561D-13	0.4864008D+03 0.3150603D+03	0.7174 1.1076	0.0014	-0.0019 0.0014 0.0006	0.0052	-0.0032 0.0052 0.0022
9 STRCUQ	NL	0	-0.4211286D+02	0.6461247D-12	0.9097207D+02 0.8058492D+02	-0.4629 -0.5226	-0.0017	-0.0008 -0.0017 -0.0007	-0.0012	-0.0031 -0.0012 -0.0005
10 GRVOY	NL	0	-0.1020267D+03	0.3629703D-12	0.1232653D+03 0.7632208D+02	-0.8277 -1.3368	-0.0025	0.0010 -0.0025 -0.0011	0.0000	0.0007 0.0000 0.0000
11 AUTPKRP	NL	0	-0.1384592D+05	0.1662110D-12	0.2739166D+05 0.2250279D+05	-0.5055 -0.6153	-0.1387	0.0015 -0.1394 -0.0589	-0.1599	0.0000 -0.1592 -0.0671
12 GRMUMH	NL	0	0.6389743D+02	0.7927041D-13	0.4470400D+03 0.4445425D+03	0.1429 0.1437	0.0003	0.0816 0.0003 0.0001	0.0000	0.0951 0.0000 0.0000
13 TLK822	NL	0	0.2616814D+01	0.8997123D-10	0.5818872D+01 0.4797097D+01	0.4497 0.5455	0.0155	-0.0002 0.0156 0.0066	0.0111	0.0000 0.0110 0.0047
14 RFK822	NL	0	0.4830309D+03	0.3559941D-12	0.6962791D+03 0.5607028D+03	0.6937 0.8615	0.0115	-0.0091 0.0115 0.0049	0.0082	-0.0066 0.0082 0.0034
								-0.0067		-0.0049

15	SFK822	NL	0	-0.1601368D+03	0.1157805D-11	0.2252233D+03 0.1537328D+03	-0.7110 -1.0417	-0.0124	-0.0124 -0.0053 0.0073	-0.0059	-0.0059 -0.0025 0.0035
16	CSFMR822	NL	0	0.7997213D+02	0.1105566D-10	0.7841267D+02 0.1822180D+02	1.0199 4.3888	0.0580	0.0583 0.0246 -0.0341	0.0360	0.0358 0.0151 -0.0214
17	LOIIND61	NL	0	0.4044600D+04	0.4297346D-12	0.4401276D+04 0.2593998D+04	0.9190 1.5592	0.1072	0.1077 0.0455 -0.0630	0.0909	0.0905 0.0381 -0.0541
18	LOIAS	NL	0	0.1618856D+04	0.1176467D-12	0.4004028D+04 0.3870347D+04	0.4043 0.4183	0.0096	0.0097 0.0041 -0.0057	0.0364	0.0362 0.0153 -0.0216
19	MOP62	NL	0	0.9988393D+04	0.4111529D-12	0.9582188D+04 0.2330629D+04	1.0424 4.2857	0.2523	0.2536 0.1071 -0.1484	0.2245	0.2235 0.0942 -0.1335
20	LIVMAD	EL	1	0.2648383D+01	0.2283006D-08	0.2949183D+01 0.2668482D+01	0.8980 0.9925	0.2279	0.2291 0.0967 -0.1340	0.1891	0.1883 0.0794 -0.1125
21	IPDRQO	EL	1	-0.4109974D+05	-0.6011147D-12	0.5701098D+05 0.3622621D+05	-0.7209 -1.1345	-0.3166	-0.3182 -0.1344 0.1862	-0.2910	-0.2897 -0.1221 0.1730
22	ENTRNMDC	EL	1	0.8054998D+03	0.8228082D-11	0.1285465D+04 0.1182241D+04	0.6266 0.6813	0.2733	0.2748 0.1160 -0.1608	0.2301	0.2291 0.0966 -0.1369
23	VUTDIPAD	EL	1	0.1759910D+06	-0.7574993D-12	0.3139036D+06 0.2068363D+06	0.5607 0.8509	0.3155	0.3172 0.1339 -0.1856	0.2820	0.2808 0.1184 -0.1677
24	SURPOL	EL	1	-0.9751469D+03	0.1937260D-11	0.1679904D+04 0.1292605D+04	-0.5805 -0.7544	-0.1020	-0.1026 -0.0433 0.0600	-0.0715	-0.0712 -0.0300 0.0425
25	PRALT	EL	1	-0.7492035D+04	-0.1387422D-12	0.8753788D+04 0.4381633D+04	-0.8559 -1.7099	-0.1904	-0.1914 -0.0808 0.1120	-0.1447	-0.1441 -0.0607 0.0861
26	RSIDPQ	EL	1	0.9371022D+01	0.1391758D-08	0.4347778D+01 0.3399115D+01	2.1554 2.7569	0.4917	0.4942 0.2087 -0.2892	0.4053	0.4035 0.1701 -0.2410
27	VEHSF	EL	1	0.3572488D+01	0.1406947D-08	0.4975191D+01 0.4869631D+01	0.7181 0.7336	0.1917	0.1927 0.0814 -0.1128	0.1333	0.1327 0.0559 -0.0793
28	WD	EL	1	-0.2876327D+04	0.3876163D-11	0.3136727D+04 0.1856022D+04	-0.9170 -1.5497	-0.5148	-0.5175 -0.2185 0.3028	-0.3770	-0.3753 -0.1582 0.2242
29	SAT	EL	1	-0.2040703D+04	0.1080641D-11	0.2236451D+04 0.1196729D+04	-0.9125 -1.7052	-0.1473	-0.1480 -0.0625 0.0866	-0.1072	-0.1068 -0.0450 0.0638
30	SHD	EL	1	-0.1619586D+04	0.1281692D-11	0.1869071D+04 0.1079060D+04	-0.8665 -1.5009	-0.1300	-0.1307 -0.0552 0.0765	-0.0933	-0.0929 -0.0392 0.0555
31	constant	NL	0	0.2328429D+06	0.4673396D-12	0.4610222D+06 0.3419729D+06	0.5051 0.6809	7.1734	7.2108 3.0442 -4.2195	5.2327	5.2097 2.1961 -3.1118

Autocorrelation

32	rho 1			0.4553563D+00	-0.1922398D-06	0.5399224D-01 0.5366094D-01	8.4337 8.4858
33	rho 3			0.1061888D+00	-0.8435833D-06	0.6595152D-01 0.6595036D-01	1.6101 1.6101
34	rho 7			-0.2332332D+00	-0.4930927D-06	0.5752397D-01 0.5746257D-01	-4.0545 -4.0589
35	rho 8			0.2600901D+00	-0.2027694D-05	0.6004586D-01 0.5905709D-01	4.3315 4.4040
36	rho 9			0.6320921D-01	0.3889691D-06	0.5591605D-01 0.5570880D-01	1.1304 1.1346
37	rho 12			0.1491206D+00	0.8949167D-06	0.5513164D-01 0.5493734D-01	2.7048 2.7144

Box-cox on (x)

38	lambda(x) 1 = lambda(y)			0.5791963D+00	-0.1714368D-06	0.5560133D-01	10.4170 -7.5682
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Residual (w)

39	error variance			0.1550657D+08	-0.4155755D-20	0.3026699D+08 0.1137478D+07	0.5123 13.6324
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LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.3555433D+08	0.3530894D+08	0.1819059D+07	-0.5237981D-01
2 LVCEI	0.1379129D+08	0.1369611D+08	0.7056009D+06	-0.2031778D-01
3 P08PC	0.2770617D+07	0.2751495D+07	0.1417525D+06	-0.4081764D-02

4	PTDEM	0.9752438D+07	0.9685131D+07	0.4989620D+06	-0.1436762D-01
5	NCROUT04	-0.9958086D+07	-0.9889360D+07	-0.5094835D+06	0.1467058D-01
6	GRPOL	-0.2493328D+07	-0.2476120D+07	-0.1275656D+06	0.3673253D-02
7	STR813	0.4158148D+06	0.4129450D+06	0.2127425D+05	-0.6125921D-03
8	STRP	0.6612854D+06	0.6567215D+06	0.3383321D+05	-0.9742276D-03
9	STRCUQ	-0.7980651D+05	-0.7925571D+05	-0.4083124D+04	0.1175736D-03
10	GRVOY	-0.1933471D+06	-0.1920127D+06	-0.9892177D+04	0.2848453D-03
11	AUTPKRP	-0.2623888D+08	-0.2605779D+08	-0.1342455D+07	0.3865599D-01
12	GRMUMH	0.1210896D+06	0.1202539D+06	0.6195284D+04	-0.1783933D-03
13	TLK822	0.4959026D+04	0.4924800D+04	0.2537176D+03	-0.7305801D-05
14	RFK822	0.9153738D+06	0.9090562D+06	0.4683308D+05	-0.1348559D-02
15	SFK822	-0.3034692D+06	-0.3013748D+06	-0.1552633D+05	0.4470809D-03
16	CSFMR822	0.1515522D+06	0.1505062D+06	0.7753834D+04	-0.2232717D-03
17	LOIIND61	0.7664771D+07	0.7611872D+07	0.3921511D+06	-0.1129199D-01
18	LOIAS	0.3067834D+07	0.3046661D+07	0.1569590D+06	-0.4519634D-02
19	MOP62	0.1892863D+08	0.1879799D+08	0.9684417D+06	-0.2788629D-01
20	LIVMAD	0.1573774D+02	0.1562912D+02	0.8051867D+00	-0.2318536D-07
21	IPDRQO	-0.2132244D+09	-0.2117528D+09	-0.1090915D+08	0.3141292D+00
22	ENTRNMDC	0.2670874D+06	0.2652440D+06	0.1366494D+05	-0.3934819D-03
23	VUTDIPAD	0.2633150D+10	0.2614977D+10	0.1347193D+09	-0.3879244D+01
24	SURPOL	-0.7601285D+06	-0.7548824D+06	-0.3889030D+05	0.1119846D-02
25	PRALT	-0.1632877D+08	-0.1621608D+08	-0.8354257D+06	0.2405609D-01
26	RSIDPQ	0.7976618D+02	0.7921567D+02	0.4081061D+01	-0.1175142D-06
27	VEHSF	0.2991549D+02	0.2970903D+02	0.1530560D+01	-0.4407250D-07
28	WD	-0.1518062D+07	-0.1507585D+07	-0.7766829D+05	0.2236459D-02
29	SAT	-0.2083842D+07	-0.2069460D+07	-0.1066152D+06	0.3069985D-02
30	SHD	-0.1530369D+07	-0.1519807D+07	-0.7829793D+05	0.2254590D-02
31	constant	0.4412519D+09	0.4382065D+09	0.2257568D+08	-0.6500669D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1941D+02	-0.6741D+09
SIGMA(y)	0.5152D-01	0.1000D+01	-0.3473D+08
GAMMA(y)	-0.1483D-08	-0.2880D-07	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2369D+01	-0.1709D+01
SIGMA(y)	0.4222D+00	0.1000D+01	-0.7215D+00
GAMMA(y)	-0.5852D+00	-0.1386D+01	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.3879D+00	0.7793D-01	0.2743D+00	-0.2801D+00	-0.7013D-01	0.1170D-01	0.1860D-01	-0.2245D-02	-0.5438D-02
LVCEI		0.2578D+01	0.1000D+01	0.2009D+00	0.7071D+00	-0.7221D+00	-0.1808D+00	0.3015D-01	0.4795D-01	-0.5787D-02	-0.1402D-01
P08PC		0.1283D+02	0.4978D+01	0.1000D+01	0.3520D+01	-0.3594D+01	-0.8999D+00	0.1501D+00	0.2387D+00	-0.2880D-01	-0.6978D-01
PTDEM		0.3646D+01	0.1414D+01	0.2841D+00	0.1000D+01	-0.1021D+01	-0.2557D+00	0.4264D-01	0.6781D-01	-0.8183D-02	-0.1983D-01
NCROUT04		-0.3570D+01	-0.1385D+01	-0.2782D+00	-0.9793D+00	0.1000D+01	0.2504D+00	-0.4176D-01	-0.6641D-01	0.8014D-02	0.1942D-01

GRPOL	-0.1426D+02	-0.5531D+01	-0.1111D+01	-0.3911D+01	0.3994D+01	0.1000D+01	-0.1668D+00	-0.2652D+00	0.3201D-01	0.7755D-01	
STR813	0.8551D+02	0.3317D+02	0.6663D+01	0.2345D+02	-0.2395D+02	-0.5996D+01	0.1000D+01	0.1590D+01	-0.1919D+00	-0.4650D+00	
STRP	0.5377D+02	0.2086D+02	0.4190D+01	0.1475D+02	-0.1506D+02	-0.3770D+01	0.6288D+00	0.1000D+01	-0.1207D+00	-0.2924D+00	
STRCUQ	-0.4455D+03	-0.1728D+03	-0.3472D+02	-0.1222D+03	0.1248D+03	0.3124D+02	-0.5210D+01	-0.8286D+01	0.1000D+01	0.2423D+01	
GRVOY	-0.1839D+03	-0.7133D+02	-0.1433D+02	-0.5044D+02	0.5150D+02	0.1290D+02	-0.2151D+01	-0.3420D+01	0.4128D+00	0.1000D+01	
AUTPKRP	-0.1355D+01	-0.5256D+00	-0.1056D+00	-0.3717D+00	0.3795D+00	0.9502D-01	-0.1585D-01	-0.2520D-01	0.3042D-02	0.7369D-02	
GRMUMH	0.2936D+03	0.1139D+03	0.2288D+02	0.8054D+02	-0.8224D+02	-0.2059D+02	0.3434D+01	0.5461D+01	-0.6591D+00	-0.1597D+01	
TLK822	0.7170D+04	0.2781D+04	0.5587D+03	0.1967D+04	-0.2008D+04	-0.5028D+03	0.8385D+02	0.1333D+03	-0.1609D+02	-0.3899D+02	
RFK822	0.3884D+02	0.1507D+02	0.3027D+01	0.1065D+02	-0.1088D+02	-0.2724D+01	0.4543D+00	0.7224D+00	-0.8718D-01	-0.2112D+00	
SFK822	-0.1172D+03	-0.4545D+02	-0.9130D+01	-0.3214D+02	0.3281D+02	0.8216D+01	-0.1370D+01	-0.2179D+01	0.2630D+00	0.6371D+00	
CSFMR822	0.2346D+03	0.9100D+02	0.1828D+02	0.6435D+02	-0.6571D+02	-0.1645D+02	0.2744D+01	0.4363D+01	-0.5266D+00	-0.1276D+01	
LOIIND61	0.4639D+01	0.1799D+01	0.3615D+00	0.1272D+01	-0.1299D+01	-0.3253D+00	0.5425D-01	0.8628D-01	-0.1041D-01	-0.2523D-01	
LOIAS	0.1159D+02	0.4495D+01	0.9031D+00	0.3179D+01	-0.3246D+01	-0.8127D+00	0.1355D+00	0.2156D+00	-0.2601D-01	-0.6302D-01	
MOP62	0.1878D+01	0.7286D+00	0.1464D+00	0.5152D+00	-0.5261D+00	-0.1317D+00	0.2197D-01	0.3494D-01	-0.4216D-02	-0.1021D-01	
LIVMAD	0.2259D+07	0.8763D+06	0.1760D+06	0.6197D+06	-0.6328D+06	-0.1584D+06	0.2642D+05	0.4202D+05	-0.5071D+04	-0.1229D+05	
IPDRQO	-0.1667D+00	-0.6468D-01	-0.1299D-01	-0.4574D-01	0.4670D-01	0.1169D-01	-0.1950D-02	-0.3101D-02	0.3743D-03	0.9068D-03	
ENTRNMDC	0.1331D+03	0.5164D+02	0.1037D+02	0.3651D+02	-0.3728D+02	-0.9335D+01	0.1557D+01	0.2476D+01	-0.2988D+00	-0.7239D+00	
VUTDIPAD	0.1350D-01	0.5238D-02	0.1052D-02	0.3704D-02	-0.3782D-02	-0.9469D-03	0.1579D-03	0.2511D-03	-0.3031D-04	-0.7343D-04	
SURPOL	-0.4677D+02	-0.1814D+02	-0.3645D+01	-0.1283D+02	0.1310D+02	0.3280D+01	-0.5470D+00	-0.8700D+00	0.1050D+00	0.2544D+00	
PRALT	-0.2177D+01	-0.8446D+00	-0.1697D+00	-0.5973D+00	0.6098D+00	0.1527D+00	-0.2547D-01	-0.4050D-01	0.4887D-02	0.1184D-01	
RSIDPQ	0.4457D+06	0.1729D+06	0.3473D+05	0.1223D+06	-0.1248D+06	-0.3126D+05	0.5213D+04	0.8290D+04	-0.1001D+04	-0.2424D+04	
VEHSF	0.1188D+07	0.4610D+06	0.9261D+05	0.3260D+06	-0.3329D+06	-0.8335D+05	0.1390D+05	0.2211D+05	-0.2668D+04	-0.6463D+04	
WD	-0.2342D+02	-0.9085D+01	-0.1825D+01	-0.6424D+01	0.6560D+01	0.1642D+01	-0.2739D+00	-0.4356D+00	0.5257D-01	0.1274D+00	
SAT	-0.1706D+02	-0.6618D+01	-0.1330D+01	-0.4680D+01	0.4779D+01	0.1197D+01	-0.1995D+00	-0.3173D+00	0.3830D-01	0.9278D-01	
SHD	-0.2323D+02	-0.9012D+01	-0.1810D+01	-0.6373D+01	0.6507D+01	0.1629D+01	-0.2717D+00	-0.4321D+00	0.5215D-01	0.1263D+00	
constant	0.8058D-01	0.3125D-01	0.6279D-02	0.2210D-01	-0.2257D-01	-0.5651D-02	0.9424D-03	0.1499D-02	-0.1809D-03	-0.4382D-03	
=====											
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	LIVMAD
=====											
DISCEIN	-0.7380D+00	0.3406D-02	0.1395D-03	0.2575D-01	-0.8535D-02	0.4263D-02	0.2156D+00	0.8629D-01	0.5324D+00	0.4426D-06	
LVCEI	-0.1903D+01	0.8780D-02	0.3596D-03	0.6637D-01	-0.2200D-01	0.1099D-01	0.5558D+00	0.2224D+00	0.1373D+01	0.1141D-05	
P08PC	-0.9470D+01	0.4370D-01	0.1790D-02	0.3304D+00	-0.1095D+00	0.5470D-01	0.2766D+01	0.1107D+01	0.6832D+01	0.5680D-05	
PTDEM	-0.2690D+01	0.1242D-01	0.5085D-03	0.9386D-01	-0.3112D-01	0.1554D-01	0.7859D+00	0.3146D+00	0.1941D+01	0.1614D-05	
NCROUT04	0.2635D+01	-0.1216D-01	-0.4980D-03	-0.9192D-01	0.3047D-01	-0.1522D-01	-0.7697D+00	-0.3081D+00	-0.1901D+01	-0.1580D-05	
GRPOL	0.1052D+02	-0.4857D-01	-0.1989D-02	-0.3671D+00	0.1217D+00	-0.6078D-01	-0.3074D+01	-0.1230D+01	-0.7592D+01	-0.6312D-05	
STR813	-0.6310D+02	0.2912D+00	0.1193D-01	0.2201D+01	-0.7298D+00	0.3645D+00	0.1843D+02	0.7378D+01	0.4552D+02	0.3785D-04	
STRP	-0.3968D+02	0.1831D+00	0.7499D-02	0.1384D+01	-0.4589D+00	0.2292D+00	0.1159D+02	0.4639D+01	0.2862D+02	0.2380D-04	
STRCUQ	0.3288D+03	-0.1517D+01	-0.6214D-01	-0.1147D+02	0.3803D+01	-0.1899D+01	-0.9604D+02	-0.3844D+02	-0.2372D+03	-0.1972D-03	
GRVOY	0.1357D+03	-0.6263D+00	-0.2565D-01	-0.4734D+01	0.1570D+01	-0.7838D+00	-0.3964D+02	-0.1587D+02	-0.9790D+02	-0.8140D-04	
AUTPKRP	0.1000D+01	-0.4615D-02	-0.1890D-03	-0.3489D-01	0.1157D-01	-0.5776D-02	-0.2921D+00	-0.1169D+00	-0.7214D+00	-0.5998D-06	
GRMUMH	-0.2167D+03	0.1000D+01	0.4095D-01	0.7559D+01	-0.2506D+01	0.1252D+01	0.6330D+02	0.2534D+02	0.1563D+03	0.1300D-03	
TLK822	-0.5291D+04	0.2442D+02	0.1000D+01	0.1846D+03	-0.6120D+02	0.3056D+02	0.1546D+04	0.6186D+03	0.3817D+04	0.3174D-02	
RFK822	-0.2866D+02	0.1323D+00	0.5417D-02	0.1000D+01	-0.3315D+00	0.1656D+00	0.8373D+01	0.3351D+01	0.2068D+02	0.1719D-04	
SFK822	0.8646D+02	-0.3990D+00	-0.1634D-01	-0.3016D+01	0.1000D+01	-0.4994D+00	-0.2526D+02	-0.1011D+02	-0.6237D+02	-0.5186D-04	
CSFMR822	-0.1731D+03	0.7990D+00	0.3272D-01	0.6040D+01	-0.2002D+01	0.1000D+01	0.5058D+02	0.2024D+02	0.1249D+03	0.1038D-03	
LOIIND61	-0.3423D+01	0.1580D-01	0.6470D-03	0.1194D+00	-0.3959D-01	0.1977D-01	0.1000D+01	0.4003D+00	0.2470D+01	0.2053D-05	
LOIAS	-0.8553D+01	0.3947D-01	0.1616D-02	0.2984D+00	-0.9892D-01	0.4940D-01	0.2498D+01	0.1000D+01	0.6170D+01	0.5130D-05	
MOP62	-0.1386D+01	0.6397D-02	0.2620D-03	0.4836D-01	-0.1603D-01	0.8007D-02	0.4049D+00	0.1621D+00	0.1000D+01	0.8314D-06	
LIVMAD	-0.1667D+07	0.7694D+04	0.3151D+03	0.5816D+05	-0.1928D+05	0.9630D+04	0.4870D+06	0.1949D+06	0.1203D+07	0.1000D+01	
IPDRQO	0.1231D+00	-0.5679D-03	-0.2326D-04	-0.4293D-02	0.1423D-02	-0.7108D-03	-0.3595D-01	-0.1439D-01	-0.8877D-01	-0.7381D-07	
ENTRNMDC	-0.9824D+02	0.4534D+00	0.1857D-01	0.3427D+01	-0.1136D+01	0.5674D+00	0.2870D+02	0.1149D+02	0.7087D+02	0.5892D-04	

VUTDIPAD	-0.9965D-02	0.4599D-04	0.1883D-05	0.3476D-03	-0.1152D-03	0.5756D-04	0.2911D-02	0.1165D-02	0.7189D-02	0.5977D-08								
SURPOL	0.3452D+02	-0.1593D+00	-0.6524D-02	-0.1204D+01	0.3992D+00	-0.1994D+00	-0.1008D+02	-0.4036D+01	-0.2490D+02	-0.2070D-04								
PRALT	0.1607D+01	-0.7416D-02	-0.3037D-03	-0.5606D-01	0.1858D-01	-0.9281D-02	-0.4694D+00	-0.1879D+00	-0.1159D+01	-0.9638D-06								
RSIDPQ	-0.3289D+06	0.1518D+04	0.6217D+02	0.1148D+05	-0.3804D+04	0.1900D+04	0.9609D+05	0.3846D+05	0.2373D+06	0.1973D+00								
VEHSF	-0.8771D+06	0.4048D+04	0.1658D+03	0.3060D+05	-0.1014D+05	0.5066D+04	0.2562D+06	0.1025D+06	0.6327D+06	0.5261D+00								
WD	0.1728D+02	-0.7977D-01	-0.3267D-02	-0.6030D+00	0.1999D+00	-0.9983D-01	-0.5049D+01	-0.2021D+01	-0.1247D+02	-0.1037D-04								
SAT	0.1259D+02	-0.5811D-01	-0.2380D-02	-0.4393D+00	0.1456D+00	-0.7273D-01	-0.3678D+01	-0.1472D+01	-0.9084D+01	-0.7552D-05								
SHD	0.1715D+02	-0.7912D-01	-0.3240D-02	-0.5981D+00	0.1983D+00	-0.9903D-01	-0.5008D+01	-0.2005D+01	-0.1237D+02	-0.1028D-04								
constant	-0.5946D-01	0.2744D-03	0.1124D-04	0.2074D-02	-0.6877D-03	0.3435D-03	0.1737D-01	0.6953D-02	0.4290D-01	0.3567D-07								
=====																		
	X(k)	IPDRQO	ENTRNMDC	VUTDIPAD	SURPOL	PRALT	RSIDPQ	VEHSF	WD	SAT	SHD							
=====																		
X(l)																		
=====																		
DISCEIN	-0.5997D+01	0.7512D-02	0.7406D+02	-0.2138D-01	-0.4593D+00	0.2244D-05	0.8414D-06	-0.4270D-01	-0.5861D-01	-0.4304D-01								
LVCEI	-0.1546D+02	0.1937D-01	0.1909D+03	-0.5512D-01	-0.1184D+01	0.5784D-05	0.2169D-05	-0.1101D+00	-0.1511D+00	-0.1110D+00								
P08PC	-0.7696D+02	0.9640D-01	0.9504D+03	-0.2744D+00	-0.5894D+01	0.2879D-04	0.1080D-04	-0.5479D+00	-0.7521D+00	-0.5524D+00								
PTDEM	-0.2186D+02	0.2739D-01	0.2700D+03	-0.7794D-01	-0.1674D+01	0.8179D-05	0.3067D-05	-0.1557D+00	-0.2137D+00	-0.1569D+00								
NCROUT04	0.2141D+02	-0.2682D-01	-0.2644D+03	0.7633D-01	0.1640D+01	-0.8010D-05	-0.3004D-05	0.1524D+00	0.2093D+00	0.1537D+00								
GRPOL	0.8552D+02	-0.1071D+00	-0.1056D+04	0.3049D+00	0.6549D+01	-0.3199D-04	-0.1200D-04	0.6088D+00	0.8358D+00	0.6138D+00								
STR813	-0.5128D+03	0.6423D+00	0.6333D+04	-0.1828D+01	-0.3927D+02	0.1918D-03	0.7194D-04	-0.3651D+01	-0.5011D+01	-0.3680D+01								
STRP	-0.3224D+03	0.4039D+00	0.3982D+04	-0.1149D+01	-0.2469D+02	0.1206D-03	0.4524D-04	-0.2296D+01	-0.3151D+01	-0.2314D+01								
STRCUQ	0.2672D+04	-0.3347D+01	-0.3299D+05	0.9525D+01	0.2046D+03	-0.9995D-03	-0.3749D-03	0.1902D+02	0.2611D+02	0.1918D+02								
GRVOY	0.1103D+04	-0.1381D+01	-0.1362D+05	0.3931D+01	0.8445D+02	-0.4126D-03	-0.1547D-03	0.7851D+01	0.1078D+02	0.7915D+01								
AUTPKRP	0.8126D+01	-0.1018D-01	-0.1004D+03	0.2897D-01	0.6223D+00	-0.3040D-05	-0.1140D-05	0.5786D-01	0.7942D-01	0.5832D-01								
GRMUMH	-0.1761D+04	0.2206D+01	0.2175D+05	-0.6277D+01	-0.1348D+03	0.6587D-03	0.2471D-03	-0.1254D+02	-0.1721D+02	-0.1264D+02								
TLK822	-0.4300D+05	0.5386D+02	0.5310D+06	-0.1533D+03	-0.3293D+04	0.1609D-01	0.6033D-02	-0.3061D+03	-0.4202D+03	-0.3086D+03								
RFK822	-0.2329D+03	0.2918D+00	0.2877D+04	-0.8304D+00	-0.1784D+02	0.8714D-04	0.3268D-04	-0.1658D+01	-0.2276D+01	-0.1672D+01								
SFK822	0.7026D+03	-0.8801D+00	-0.8677D+04	0.2505D+01	0.5381D+02	-0.2628D-03	-0.9858D-04	0.5002D+01	0.6867D+01	0.5043D+01								
CSFMR822	-0.1407D+04	0.1762D+01	0.1737D+05	-0.5016D+01	-0.1077D+03	0.5263D-03	0.1974D-03	-0.1002D+02	-0.1375D+02	-0.1010D+02								
LOIIND61	-0.2782D+02	0.3485D-01	0.3435D+03	-0.9917D-01	-0.2130D+01	0.1041D-04	0.3903D-05	-0.1981D+00	-0.2719D+00	-0.1997D+00								
LOIAS	-0.6950D+02	0.8706D-01	0.8583D+03	-0.2478D+00	-0.5323D+01	0.2600D-04	0.9751D-05	-0.4948D+00	-0.6793D+00	-0.4988D+00								
MOP62	-0.1126D+02	0.1411D-01	0.1391D+03	-0.4016D-01	-0.8626D+00	0.4214D-05	0.1580D-05	-0.8020D-01	-0.1101D+00	-0.8085D-01								
LIVMAD	-0.1355D+08	0.1697D+05	0.1673D+09	-0.4830D+05	-0.1038D+07	0.5068D+01	0.1901D+01	-0.9646D+05	-0.1324D+06	-0.9724D+05								
IPDRQO	0.1000D+01	-0.1253D-02	-0.1235D+02	0.3565D-02	0.7658D-01	-0.3741D-06	-0.1403D-06	0.7120D-02	0.9773D-02	0.7177D-02								
ENTRNMDC	-0.7983D+03	0.1000D+01	0.9859D+04	-0.2846D+01	-0.6114D+02	0.2987D-03	0.1120D-03	-0.5684D+01	-0.7802D+01	-0.5730D+01								
VUTDIPAD	-0.8098D-01	0.1014D-03	0.1000D+01	-0.2887D-03	-0.6201D-02	0.3029D-07	0.1136D-07	-0.5765D-03	-0.7914D-03	-0.5812D-03								
SURPOL	0.2805D+03	-0.3514D+00	-0.3464D+04	0.1000D+01	0.2148D+02	-0.1049D-03	-0.3936D-04	0.1997D+01	0.2741D+01	0.2013D+01								
PRALT	0.1306D+02	-0.1636D-01	-0.1613D+03	0.4655D-01	0.1000D+01	-0.4885D-05	-0.1832D-05	0.9297D-01	0.1276D+00	0.9372D-01								
RSIDPQ	-0.2673D+07	0.3348D+04	0.3301D+08	-0.9529D+04	-0.2047D+06	0.1000D+01	0.3750D+00	-0.1903D+05	-0.2612D+05	-0.1919D+05								
VEHSF	-0.7128D+07	0.8928D+04	0.8802D+08	-0.2541D+05	-0.5458D+06	0.2666D+01	0.1000D+01	-0.5075D+05	-0.6966D+05	-0.5116D+05								
WD	0.1405D+03	-0.1759D+00	-0.1735D+04	0.5007D+00	0.1076D+02	-0.5254D-04	-0.1971D-04	0.1000D+01	0.1373D+01	0.1008D+01								
SAT	0.1023D+03	-0.1282D+00	-0.1264D+04	0.3648D+00	0.7836D+01	-0.3828D-04	-0.1436D-04	0.7285D+00	0.1000D+01	0.7344D+00								
SHD	0.1393D+03	-0.1745D+00	-0.1721D+04	0.4967D+00	0.1067D+02	-0.5212D-04	-0.1955D-04	0.9920D+00	0.1362D+01	0.1000D+01								
constant	-0.4832D+00	0.6053D-03	0.5967D+01	-0.1723D-02	-0.3701D-01	0.1808D-06	0.6780D-07	-0.3440D-02	-0.4723D-02	-0.3468D-02								
=====																		
	X(k)	constant																
=====																		
X(l)																		
=====																		
DISCEIN	0.1241D+02																	
LVCEI	0.3199D+02																	
P08PC	0.1593D+03																	
PTDEM	0.4525D+02																	
NCROUT04	-0.4431D+02																	
GRPOL	-0.1770D+03																	

STR813	0.1061D+04
STRP	0.6673D+03
STRCUQ	-0.5529D+04
GRVOY	-0.2282D+04
AUTPKRP	-0.1682D+02
GRMUMH	0.3644D+04
TLK822	0.8898D+05
RFK822	0.4820D+03
SFK822	-0.1454D+04
CSFMR822	0.2912D+04
LOIIND61	0.5757D+02
LOIAS	0.1438D+03
MOP62	0.2331D+02
LIVMAD	0.2804D+08
IPDRQO	-0.2069D+01
ENTRNMDC	0.1652D+04
VUTDIPAD	0.1676D+00
SURPOL	-0.5805D+03
PRALT	-0.2702D+02
RSIDPQ	0.5532D+07
VEHSF	0.1475D+08
WD	-0.2907D+03
SAT	-0.2117D+03
SHD	-0.2883D+03
constant	0.1000D+01

Log-likelihood

- initial value :	-5207.7737
- final value :	-5138.7809
- ratio test :	137.9856

Pearson-r2 :	0.9660
Pearson-r2 bar :	0.9612
Pseudo-(1)-r2 :	0.5962
Pseudo-(1)-r2 bar :	0.5392
Std-error of (w) :	3937.8382

	Number of observations	first-last obs.no.
- sample :	313	1 - 313
- estimation :	300	14 - 313

CPU TIME: 0.62 sec

Output file 3: MA_bc1au.txt

```

&CARD1
NOBS = 313,
NC = 14,
NF = 313,
NFP = 313,
NOBEL = 12,
NM = 0,
NSTEP = 500,
EPSI = 1.0000000000000000E-007,
WGHT = 1.0000000000000000
/
&CARD2
NB = 42,

```

```

NRO      =      9,
NSL      =     23,
NGF      =      0,
MAXF     =      0,
NGV      =      1,
MAXV     =     19,
NLY      =      2,
NDM      =     -1,
NLE      =      0,
ND        =      0
/
$CARD3
NCOR     =      0,
NRES     =      0,
NPW      =      0,
NGUVW    =      0,
NPDQL    =      0,
NCOV     =      0,
NEY      =      0,
VARNAME  = ma_bclau ,
NVARIANT =      30
/

```

Working space used : 35778 out of 500000

```

autocorrelation of orders:      1      2      3      4
                                5      6      8     10     12
rho initial values:  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
21 22 23

```

```

group      1 (estimated lambda(x))
initial value:  1.000000000000000
variable no.
 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

```

```

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value:  1.000000000000000
upper limit for y  0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	MA	0.23040D+04	0.89864D+04	0.23554D+05	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	DUM78RAU	0.00000D+00	0.38339D-01	0.10000D+01	301
22	SED78RAU	0.00000D+00	0.17572D-01	0.91667D+00	302
23	CONSTA	0.00000D+00	0.13738D+00	0.10000D+01	270
24	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
25	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
26	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
27	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
28	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
29	PPAS	0.10000D+00	0.15846D+00	0.26970D+00	0
30	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
31	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
32	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
33	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
34	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
35	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
36	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
37	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
38	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
39	DMSR	0.77071D+02	0.98877D+02	0.15414D+03	0
40	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
41	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
42	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
43	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)	SIGMA(y)	y(sample)	E(y)	SIGMA(y)
								GAMMA(y)			GAMMA(y)	
							-first obs	14		-first obs	302	
							-last obs	313		-last obs	313	
1 DISCEIN	NL	0	0.8309294D+04	0.4581333D+00	0.2059213D+04	4.0352	0.4128	0.4127	0.8103	0.7992	0.8103	0.8103
								0.0000	0.0001		0.0000	0.0001
								1.2653	2.4737		1.2653	2.4737
2 LVCEI	NL	0	0.1273424D+04	0.2558333D+00	0.4670210D+03	2.7267	0.0353	0.0353	0.1225	0.1225	0.1242	0.1242
								0.0000	0.0000		0.0000	0.0000
								0.1083	0.3791		0.1083	0.3791
3 P08PC	NL	0	0.6646794D+03	0.5233333D+00	0.4818141D+03	1.3795	0.0377	0.0377	0.0639	0.0639	0.0648	0.0648
								0.0000	0.0000		0.0000	0.0000
								0.1156	0.1979		0.1156	0.1979
4 PTDEM	NL	0	-0.2239272D+04	0.3933333D+00	0.5516693D+03	-4.0591	-0.0955	-0.0955	-0.2154	-0.2154	-0.2184	-0.2184
								0.0000	0.0000		0.0000	0.0000
								-0.2927	-0.6666		-0.2927	-0.6666
5 NCR0UT04	NL	0	-0.1234798D+04	0.3000000D-01	0.6924608D+03	-1.7832	-0.0040	-0.0040	-0.0891	-0.0891	-0.0903	-0.0903
								0.0000	0.0000		0.0000	0.0000
								-0.0123	-0.2757		-0.0123	-0.2757
6 GRPOL	NL	0	-0.7247547D+03	0.1055554D-01	0.4571041D+03	-1.5855	-0.0008	-0.0008	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
								-0.0025	0.0000		-0.0025	0.0000
7 STR813	NL	0	0.4462598D+02	0.4733333D+00	0.2726334D+02	1.6368	0.0023	0.0023	0.0046	0.0046	0.0047	0.0047
								0.0000	0.0000		0.0000	0.0000
								0.0070	0.0144		0.0070	0.0144
8 STRP	NL	0	-0.3559620D+01	0.1266667D+00	0.5060233D+02	-0.0703	0.0000	0.0000	-0.0002	-0.0002	-0.0002	-0.0002
								0.0000	0.0000		0.0000	0.0000
								-0.0001	-0.0007		-0.0001	-0.0007
9 STRCUQ	NL	0	-0.1470211D+02	0.1300000D+01	0.1522394D+02	-0.9657	-0.0021	-0.0021	-0.0018	-0.0018	-0.0018	-0.0018
								0.0000	0.0000		0.0000	0.0000
								-0.0064	-0.0055		-0.0064	-0.0055
10 GRVOY	NL	0	0.7410132D+01	0.7900000D+00	0.1684483D+02	0.4399	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
								0.0019	0.0000		0.0019	0.0000
11 AUTPKRP	NL	0	-0.1217192D+05	0.3251368D+00	0.3857934D+04	-3.1550	-0.4292	-0.4291	-0.6015	-0.6015	-0.6099	-0.6099
								0.0000	0.0000		0.0000	0.0000
								-1.3154	-1.8618		-1.3154	-1.8618
12 GRMUMH	NL	0	-0.4201399D+02	0.1716667D+00	0.3713813D+02	-1.1313	-0.0008	-0.0008	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
								-0.0024	0.0000		-0.0024	0.0000
13 TLK822	NL	0	0.1027112D+02	0.1928373D+03	0.8829319D+00	11.6330	0.2148	0.2147	0.1862	0.1862	0.1888	0.1888
								0.0000	0.0000		0.0000	0.0000
								0.6583	0.5764		0.6583	0.5764
14 RFK822	NL	0	0.4764507D+03	0.7708521D+00	0.1617683D+03	2.9453	0.0398	0.0398	0.0347	0.0347	0.0352	0.0352
								0.0000	0.0000		0.0000	0.0000
								0.1221	0.1074		0.1221	0.1074
15 SFK822	NL	0	0.1740232D+03	0.2509268D+01	0.3468130D+02	5.0178	0.0474	0.0473	0.0274	0.0274	0.0278	0.0278
								0.0000	0.0000		0.0000	0.0000
								0.1451	0.0847		0.1451	0.0847
16 CSFMR822	NL	0	0.1822448D+01	0.2353299D+02	0.4675974D+01	0.3897	0.0047	0.0046	0.0035	0.0035	0.0036	0.0036
								0.0000	0.0000		0.0000	0.0000
								0.0143	0.0109		0.0143	0.0109
17 LOIIND61	NL	0	0.1180093D+04	0.8600000D+00	0.4458450D+03	2.6469	0.1101	0.1100	0.1135	0.1135	0.1151	0.1151
								0.0000	0.0000		0.0000	0.0000
								0.3373	0.3513		0.3373	0.3513
18 LOIAS	NL	0	0.4502931D+03	0.1933333D+00	0.6665281D+03	0.6756	0.0094	0.0094	0.0433	0.0433	0.0439	0.0439
								0.0000	0.0000		0.0000	0.0000
								0.0289	0.1341		0.0289	0.1341
19 MOP62	NL	0	0.3889407D+03	0.8200000D+00	0.5372079D+03	0.7240	0.0346	0.0346	0.0374	0.0374	0.0379	0.0379
								0.0000	0.0000		0.0000	0.0000
								0.1060	0.1158		0.1060	0.1158
20 PRMVACR1	NL	0	0.2667727D+07	0.4349227D-04	0.2837958D+07	0.9400	0.0126	0.0126	0.0126	0.0126	0.0128	0.0128
								0.0000	0.0000		0.0000	0.0000
								0.0386	0.0391		0.0386	0.0391
21 DUM78RAU	NL	0	0.1322434D+04	0.4000000D-01	0.9094485D+03	1.4541	0.0057	0.0057	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
								0.0176	0.0000		0.0176	0.0000
22 SED78RAU	NL	0	-0.1826458D+04	0.1833333D-01	0.1203016D+04	-1.5182	-0.0036	-0.0036	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
								-0.0111	0.0000		-0.0111	0.0000
23 CONSTA	NL	0	-0.9689990D+03	0.1433333D+00	0.6953221D+03	-1.3936	-0.0151	-0.0151	-0.0932	-0.0932	-0.0945	-0.0945
								0.0000	0.0000		0.0000	0.0000
								-0.0462	-0.2885		-0.0462	-0.2885
24 KMPARR1	EL	1	0.2424917D-05	0.2620907D+10	0.1149621D-05	2.1093	0.6892	0.6891	0.7186	0.7186	0.7286	0.7286
								0.0000	0.0000		0.0000	0.0000
								2.1124	2.2240		2.1124	2.2240
25 DICR1	EL	1	0.2062564D-05	0.6151215D+08	0.7743586D-05	0.2664	0.0138	0.0138	0.0210	0.0210	0.0213	0.0213
								0.0000	0.0000		0.0000	0.0000
								0.0422	0.0651		0.0422	0.0651
26 PGRPKM	EL	1	-0.1017096D+06	0.1602677D-01	0.1135145D+06	-0.8960	-0.1768	-0.1767	-0.2543	-0.2543	-0.2579	-0.2579
								0.0000	0.0000		0.0000	0.0000
								-0.5418	-0.7871		-0.5418	-0.7871
27 PDRQ	EL	1	-0.4242467D+05	0.9268908D-01	0.3216489D+05	-1.3190	-0.4264	-0.4264	-0.6121	-0.6121	-0.6206	-0.6206
								0.0000	0.0000		0.0000	0.0000
								-1.3070	-1.8945		-1.3070	-1.8945
28 ENTRNMDC	EL	1	-0.1034667D+03	0.6295400D+02	0.3598131D+02	-2.8756	-0.7063	-0.7062	-0.8026	-0.8026	-0.8137	-0.8137
								0.0000	0.0000		0.0000	0.0000
								-2.1649	-2.4840		-2.1649	-2.4840
29 PPAS	EL	1	0.5797122D+05	0.1609208D+00	0.2346467D+05	2.4706	1.0116	1.0115	1.4522	1.4522	1.4724	1.4724
								0.0001	0.0001		0.0001	0.0001
								3.1006	4.4947		3.1006	4.4947
30 SURPOL	EL	1	0.5384402D+03	0.8257199D+01	0.1225103D+03	4.3951	0.4821	0.4820	0.3989	0.3989	0.4044	0.4044
								0.0000	0.0000		0.0000	0.0000
								1.4777	1.2345		1.4777	1.2345
31 PERPA	EL	1	-0.2872037D+04	0.1297782D+01	0.1959438D+04	-1.4657	-0.4042	-0.4041	-0.4013	-0.4013	-0.4069	-0.4069

26	PGRPKM	-0.1017096D+06	-0.1017095D+06	-0.5664355D+00	0.1720087D-01
27	PDRQ	-0.4242467D+05	-0.4242465D+05	-0.2362692D+00	0.7174756D-02
28	ENTRNMDC	-0.1034667D+03	-0.1034666D+03	-0.5762211D-03	0.1749803D-04
29	PPAS	0.5797122D+05	0.5797119D+05	0.3228502D+00	-0.9803950D-02
30	SURPOL	0.5384402D+03	0.5384399D+03	0.2998652D-02	-0.9105969D-04
31	PERPA	-0.2872037D+04	-0.2872035D+04	-0.1599479D-01	0.4857117D-03
32	PRCHOM	-0.6398892D+05	-0.6398888D+05	-0.3563636D+00	0.1082165D-01
33	PRFEVM	0.1959281D+06	0.1959280D+06	0.1091152D+01	-0.3313488D-01
34	HEUHM	0.1230718D+03	0.1230717D+03	0.6854047D-03	-0.2081360D-04
35	PRMED	0.7827186D+03	0.7827181D+03	0.4359074D-02	-0.1323714D-03
36	PRALT	0.4334647D+04	0.4334644D+04	0.2414028D-01	-0.7330648D-03
37	PRMTRARI	0.9717914D+08	0.9717908D+08	0.5412048D+03	-0.1643470D+02
38	PRMMAGRI	-0.1424989D+05	-0.1424988D+05	-0.7935973D-01	0.2409907D-02
39	DMSR	-0.7720140D+02	-0.7720136D+02	-0.4299459D-03	0.1305611D-04
40	WD	0.2369304D+03	0.2369302D+03	0.1319500D-02	-0.4006908D-04
41	SAT	0.4470392D+03	0.4470390D+03	0.2489627D-02	-0.7560218D-04
42	SHD	0.3257920D+03	0.3257919D+03	0.1814383D-02	-0.5509715D-04
43	constant	0.9720117D+08	0.9720112D+08	0.5413275D+03	-0.1643842D+02

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1796D+06	-0.5913D+07
SIGMA(y)	0.5569D-05	0.1000D+01	-0.3293D+02
GAMMA(y)	-0.1691D-06	-0.3037D-01	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1848D+05	0.3262D+00
SIGMA(y)	0.5410D-04	0.1000D+01	0.1765D-04
GAMMA(y)	0.3066D+01	0.5666D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.1533D+00	0.7999D-01	-0.2695D+00	-0.1486D+00	-0.8722D-01	0.5371D-02	-0.4284D-03	-0.1769D-02	0.8918D-03
LVCEI		0.6525D+01	0.1000D+01	0.5220D+00	-0.1758D+01	-0.9697D+00	-0.5691D+00	0.3504D-01	-0.2795D-02	-0.1155D-01	0.5819D-02
P08PC		0.1250D+02	0.1916D+01	0.1000D+01	-0.3369D+01	-0.1858D+01	-0.1090D+01	0.6714D-01	-0.5355D-02	-0.2212D-01	0.1115D-01
PTDEM		-0.3711D+01	-0.5687D+00	-0.2968D+00	0.1000D+01	0.5514D+00	0.3237D+00	-0.1993D-01	0.1590D-02	0.6566D-02	-0.3309D-02
NCROUT04		-0.6729D+01	-0.1031D+01	-0.5383D+00	0.1813D+01	0.1000D+01	0.5869D+00	-0.3614D-01	0.2883D-02	0.1191D-01	-0.6001D-02
GRPOL		-0.1146D+02	-0.1757D+01	-0.9171D+00	0.3090D+01	0.1704D+01	0.1000D+01	-0.6157D-01	0.4911D-02	0.2029D-01	-0.1022D-01
STR813		0.1862D+03	0.2854D+02	0.1489D+02	-0.5018D+02	-0.2767D+02	-0.1624D+02	0.1000D+01	-0.7977D-01	-0.3295D+00	0.1660D+00
STRP		-0.2334D+04	-0.3577D+03	-0.1867D+03	0.6291D+03	0.3469D+03	0.2036D+03	-0.1254D+02	0.1000D+01	0.4130D+01	-0.2082D+01
STRCUQ		-0.5652D+03	-0.8662D+02	-0.4521D+02	0.1523D+03	0.8399D+02	0.4930D+02	-0.3035D+01	0.2421D+00	0.1000D+01	-0.5040D+00
GRVOY		0.1121D+04	0.1718D+03	0.8970D+02	-0.3022D+03	-0.1666D+03	-0.9781D+02	0.6022D+01	-0.4804D+00	-0.1984D+01	0.1000D+01
AUTPKRP		-0.6827D+00	-0.1046D+00	-0.5461D-01	0.1840D+00	0.1014D+00	0.5954D-01	-0.3666D-02	0.2924D-03	0.1208D-02	-0.6088D-03
GRMUMH		-0.1978D+03	-0.3031D+02	-0.1582D+02	0.5330D+02	0.2939D+02	0.1725D+02	-0.1062D+01	0.8472D-01	0.3499D+00	-0.1764D+00
TLK822		0.8090D+03	0.1240D+03	0.6471D+02	-0.2180D+03	-0.1202D+03	-0.7056D+02	0.4345D+01	-0.3466D+00	-0.1431D+01	0.7215D+00
RFK822		0.1744D+02	0.2673D+01	0.1395D+01	-0.4700D+01	-0.2592D+01	-0.1521D+01	0.9366D-01	-0.7471D-02	-0.3086D-01	0.1555D-01
SFK822		0.4775D+02	0.7318D+01	0.3819D+01	-0.1287D+02	-0.7096D+01	-0.4165D+01	0.2564D+00	-0.2045D-01	-0.8448D-01	0.4258D-01

CSFMR822	0.4559D+04	0.6987D+03	0.3647D+03	-0.1229D+04	-0.6775D+03	-0.3977D+03	0.2449D+02	-0.1953D+01	-0.8067D+01	0.4066D+01
LOIIND61	0.7041D+01	0.1079D+01	0.5632D+00	-0.1898D+01	-0.1046D+01	-0.6142D+00	0.3782D-01	-0.3016D-02	-0.1246D-01	0.6279D-02
LOIAS	0.1845D+02	0.2828D+01	0.1476D+01	-0.4973D+01	-0.2742D+01	-0.1610D+01	0.9910D-01	-0.7905D-02	-0.3265D-01	0.1646D-01
MOP62	0.2136D+02	0.3274D+01	0.1709D+01	-0.5757D+01	-0.3175D+01	-0.1863D+01	0.1147D+00	-0.9152D-02	-0.3780D-01	0.1905D-01
PRMVACR1	0.3115D-02	0.4773D-03	0.2492D-03	-0.8394D-03	-0.4629D-03	-0.2717D-03	0.1673D-04	-0.1334D-05	-0.5511D-05	0.2778D-05
DUM78RAU	0.6283D+01	0.9629D+00	0.5026D+00	-0.1693D+01	-0.9337D+00	-0.5480D+00	0.3375D-01	-0.2692D-02	-0.1112D-01	0.5603D-02
SED78RAU	-0.4549D+01	-0.6972D+00	-0.3639D+00	0.1226D+01	0.6761D+00	0.3968D+00	-0.2443D-01	0.1949D-02	0.8050D-02	-0.4057D-02
CONSTA	-0.8575D+01	-0.1314D+01	-0.6859D+00	0.2311D+01	0.1274D+01	0.7479D+00	-0.4605D-01	0.3674D-02	0.1517D-01	-0.7647D-02
KMPARR1	0.3427D+10	0.5251D+09	0.2741D+09	-0.9234D+09	-0.5092D+09	-0.2989D+09	0.1840D+08	-0.1468D+07	-0.6063D+07	0.3056D+07
DICR1	0.4029D+10	0.6174D+09	0.3223D+09	-0.1086D+10	-0.5987D+09	-0.3514D+09	0.2164D+08	-0.1726D+07	-0.7128D+07	0.3593D+07
PGRPKM	-0.8170D-01	-0.1252D-01	-0.6535D-02	0.2202D-01	0.1214D-01	0.7126D-02	-0.4388D-03	0.3500D-04	0.1445D-03	-0.7286D-04
PDRQ	-0.1959D+00	-0.3002D-01	-0.1567D-01	0.5278D-01	0.2911D-01	0.1708D-01	-0.1052D-02	0.8390D-04	0.3465D-03	-0.1747D-03
ENTRNMDC	-0.8031D+02	-0.1231D+02	-0.6424D+01	0.2164D+02	0.1193D+02	0.7005D+01	-0.4313D+00	0.3440D-01	0.1421D+00	-0.7162D-01
PPAS	0.1433D+00	0.2197D-01	0.1147D-01	-0.3863D-01	-0.2130D-01	-0.1250D-01	0.7698D-03	-0.6140D-04	-0.2536D-03	0.1278D-03
SURPOL	0.1543D+02	0.2365D+01	0.1234D+01	-0.4159D+01	-0.2293D+01	-0.1346D+01	0.8288D-01	-0.6611D-02	-0.2730D-01	0.1376D-01
PERPA	-0.2893D+01	-0.4434D+00	-0.2314D+00	0.7797D+00	0.4299D+00	0.2523D+00	-0.1554D-01	0.1239D-02	0.5119D-02	-0.2580D-02
PRCHOM	-0.1299D+00	-0.1990D-01	-0.1039D-01	0.3499D-01	0.1930D-01	0.1133D-01	-0.6974D-03	0.5563D-04	0.2298D-03	-0.1158D-03
PRFEVM	0.4241D-01	0.6499D-02	0.3392D-02	-0.1143D-01	-0.6302D-02	-0.3699D-02	0.2278D-03	-0.1817D-04	-0.7504D-04	0.3782D-04
HEUHM	0.6752D+02	0.1035D+02	0.5401D+01	-0.1819D+02	-0.1003D+02	-0.5889D+01	0.3626D+00	-0.2892D-01	-0.1195D+00	0.6021D-01
PRMED	0.1062D+02	0.1627D+01	0.8492D+00	-0.2861D+01	-0.1578D+01	-0.9259D+00	0.5701D-01	-0.4548D-02	-0.1878D-01	0.9467D-02
PRALT	0.1917D+01	0.2938D+00	0.1533D+00	-0.5166D+00	-0.2849D+00	-0.1672D+00	0.1030D-01	-0.8212D-03	-0.3392D-02	0.1710D-02
PRMTRAR1	0.8550D-04	0.1310D-04	0.6840D-05	-0.2304D-04	-0.1271D-04	-0.7458D-05	0.4592D-06	-0.3663D-07	-0.1513D-06	0.7625D-07
PRMMAGR1	-0.5831D+00	-0.8936D-01	-0.4664D-01	0.1571D+00	0.8665D-01	0.5086D-01	-0.3132D-02	0.2498D-03	0.1032D-02	-0.5200D-03
DMSR	-0.1076D+03	-0.1649D+02	-0.8610D+01	0.2901D+02	0.1599D+02	0.9388D+01	-0.5780D+00	0.4611D-01	0.1904D+00	-0.9598D-01
WD	0.3507D+02	0.5375D+01	0.2805D+01	-0.9451D+01	-0.5212D+01	-0.3059D+01	0.1884D+00	-0.1502D-01	-0.6205D-01	0.3128D-01
SAT	0.1859D+02	0.2849D+01	0.1487D+01	-0.5009D+01	-0.2762D+01	-0.1621D+01	0.9983D-01	-0.7963D-02	-0.3289D-01	0.1658D-01
SHD	0.2550D+02	0.3909D+01	0.2040D+01	-0.6873D+01	-0.3790D+01	-0.2225D+01	0.1370D+00	-0.1093D-01	-0.4513D-01	0.2274D-01
constant	0.8549D-04	0.1310D-04	0.6838D-05	-0.2304D-04	-0.1270D-04	-0.7456D-05	0.4591D-06	-0.3662D-07	-0.1513D-06	0.7624D-07
=====										
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
=====										
X(l)										
=====										
DISCEIN	-0.1465D+01	-0.5056D-02	0.1236D-02	0.5734D-01	0.2094D-01	0.2193D-03	0.1420D+00	0.5419D-01	0.4681D-01	0.3211D+03
LVCEI	-0.9558D+01	-0.3299D-01	0.8066D-02	0.3741D+00	0.1367D+00	0.1431D-02	0.9267D+00	0.3536D+00	0.3054D+00	0.2095D+04
P08PC	-0.1831D+02	-0.6321D-01	0.1545D-01	0.7168D+00	0.2618D+00	0.2742D-02	0.1775D+01	0.6775D+00	0.5852D+00	0.4014D+04
PTDEM	0.5436D+01	0.1876D-01	-0.4587D-02	-0.2128D+00	-0.7771D-01	-0.8139D-03	-0.5270D+00	-0.2011D+00	-0.1737D+00	-0.1191D+04
NCROUT04	0.9857D+01	0.3402D-01	-0.8318D-02	-0.3859D+00	-0.1409D+00	-0.1476D-02	-0.9557D+00	-0.3647D+00	-0.3150D+00	-0.2160D+04
GRPOL	0.1679D+02	0.5797D-01	-0.1417D-01	-0.6574D+00	-0.2401D+00	-0.2515D-02	-0.1628D+01	-0.6213D+00	-0.5367D+00	-0.3681D+04
STR813	-0.2728D+03	-0.9415D+00	0.2302D+00	0.1068D+02	0.3900D+01	0.4084D-01	0.2644D+02	0.1009D+02	0.8716D+01	0.5978D+05
STRP	0.3419D+04	0.1180D+02	-0.2885D+01	-0.1338D+03	-0.4889D+02	-0.5120D+00	-0.3315D+03	-0.1265D+03	-0.1093D+03	-0.7494D+06
STRCUQ	0.8279D+03	0.2858D+01	-0.6986D+00	-0.3241D+02	-0.1184D+02	-0.1240D+00	-0.8027D+02	-0.3063D+02	-0.2645D+02	-0.1815D+06
GRVOY	-0.1643D+04	-0.5670D+01	0.1386D+01	0.6430D+02	0.2348D+02	0.2459D+00	0.1593D+03	0.6077D+02	0.5249D+02	0.3600D+06
AUTPKRP	0.1000D+01	0.3452D-02	-0.8438D-03	-0.3914D-01	-0.1430D-01	-0.1497D-03	-0.9695D-01	-0.3699D-01	-0.3195D-01	-0.2192D+03
GRMUMH	0.2897D+03	0.1000D+01	-0.2445D+00	-0.1134D+02	-0.4142D+01	-0.4338D-01	-0.2809D+02	-0.1072D+02	-0.9257D+01	-0.6350D+05
TLK822	-0.1185D+04	-0.4090D+01	0.1000D+01	0.4639D+02	0.1694D+02	0.1774D+00	0.1149D+03	0.4384D+02	0.3787D+02	0.2597D+06
RFK822	-0.2555D+02	-0.8818D-01	0.2156D-01	0.1000D+01	0.3652D+00	0.3825D-02	0.2477D+01	0.9451D+00	0.8163D+00	0.5599D+04
SFK822	-0.6994D+02	-0.2414D+00	0.5902D-01	0.2738D+01	0.1000D+01	0.1047D-01	0.6781D+01	0.2588D+01	0.2235D+01	0.1533D+05
CSFMR822	-0.6679D+04	-0.2305D+02	0.5636D+01	0.2614D+03	0.9549D+02	0.1000D+01	0.6475D+03	0.2471D+03	0.2134D+03	0.1464D+07
LOIIND61	-0.1031D+02	-0.3560D-01	0.8704D-02	0.4037D+00	0.1475D+00	0.1544D-02	0.1000D+01	0.3816D+00	0.3296D+00	0.2261D+04
LOIAS	-0.2703D+02	-0.9330D-01	0.2281D-01	0.1058D+01	0.3865D+00	0.4047D-02	0.2621D+01	0.1000D+01	0.8638D+00	0.5924D+04
MOP62	-0.3130D+02	-0.1080D+00	0.2641D-01	0.1225D+01	0.4474D+00	0.4686D-02	0.3034D+01	0.1158D+01	0.1000D+01	0.6859D+04
PRMVACR1	-0.4563D-02	-0.1575D-04	0.3850D-05	0.1786D-03	0.6523D-04	0.6831D-06	0.4424D-03	0.1688D-03	0.1458D-03	0.1000D+01

DUM78RAU	-0.9204D+01	-0.3177D-01	0.7767D-02	0.3603D+00	0.1316D+00	0.1378D-02	0.8924D+00	0.3405D+00	0.2941D+00	0.2017D+04
SED78RAU	0.6664D+01	0.2300D-01	-0.5624D-02	-0.2609D+00	-0.9528D-01	-0.9978D-03	-0.6461D+00	-0.2465D+00	-0.2129D+00	-0.1461D+04
CONSTA	0.1256D+02	0.4336D-01	-0.1060D-01	-0.4917D+00	-0.1796D+00	-0.1881D-02	-0.1218D+01	-0.4647D+00	-0.4014D+00	-0.2753D+04
KMPARR1	-0.5020D+10	-0.1733D+08	0.4236D+07	0.1965D+09	0.7176D+08	0.7516D+06	0.4867D+09	0.1857D+09	0.1604D+09	0.1100D+13
DICR1	-0.5901D+10	-0.2037D+08	0.4980D+07	0.2310D+09	0.8437D+08	0.8836D+06	0.5721D+09	0.2183D+09	0.1886D+09	0.1293D+13
PGRPKM	0.1197D+00	0.4131D-03	-0.1010D-03	-0.4684D-02	-0.1711D-02	-0.1792D-04	-0.1160D-01	-0.4427D-02	-0.3824D-02	-0.2623D+02
PDRQ	0.2869D+00	0.9903D-03	-0.2421D-03	-0.1123D-01	-0.4102D-02	-0.4296D-04	-0.2782D-01	-0.1061D-01	-0.9168D-02	-0.6288D+02
ENTRNMDC	0.1176D+03	0.4061D+00	-0.9927D-01	-0.4605D+01	-0.1682D+01	-0.1761D-01	-0.1141D+02	-0.4352D+01	-0.3759D+01	-0.2578D+05
PPAS	-0.2100D+00	-0.7247D-03	0.1772D-03	0.8219D-02	0.3002D-02	0.3144D-04	0.2036D-01	0.7768D-02	0.6709D-02	0.4602D+02
SURPOL	-0.2261D+02	-0.7803D-01	0.1908D-01	0.8849D+00	0.3232D+00	0.3385D-02	0.2192D+01	0.8363D+00	0.7223D+00	0.4955D+04
PERPA	0.4238D+01	0.1463D-01	-0.3576D-02	-0.1659D+00	-0.6059D-01	-0.6345D-03	-0.4109D+00	-0.1568D+00	-0.1354D+00	-0.9289D+03
PRCHOM	0.1902D+00	0.6566D-03	-0.1605D-03	-0.7446D-02	-0.2720D-02	-0.2848D-04	-0.1844D-01	-0.7037D-02	-0.6078D-02	-0.4169D+02
PRFEVM	-0.6212D-01	-0.2144D-03	0.5242D-04	0.2432D-02	0.8882D-03	0.9302D-05	0.6023D-02	0.2298D-02	0.1985D-02	0.1362D+02
HEUHM	-0.9890D+02	-0.3414D+00	0.8346D-01	0.3871D+01	0.1414D+01	0.1481D-01	0.9589D+01	0.3659D+01	0.3160D+01	0.2168D+05
PRMED	-0.1555D+02	-0.5368D-01	0.1312D-01	0.6087D+00	0.2223D+00	0.2328D-02	0.1508D+01	0.5753D+00	0.4969D+00	0.3408D+04
PRALT	-0.2808D+01	-0.9693D-02	0.2370D-02	0.1099D+00	0.4015D-01	0.4204D-03	0.2722D+00	0.1039D+00	0.8973D-01	0.6154D+03
PRMTRAR1	-0.1253D-03	-0.4323D-06	0.1057D-06	0.4903D-05	0.1791D-05	0.1875D-07	0.1214D-04	0.4634D-05	0.4002D-05	0.2745D-01
PRMMAGR1	0.8542D+00	0.2948D-02	-0.7208D-03	-0.3344D-01	-0.1221D-01	-0.1279D-03	-0.8281D-01	-0.3160D-01	-0.2729D-01	-0.1872D+03
DMSR	0.1577D+03	0.5442D+00	-0.1330D+00	-0.6172D+01	-0.2254D+01	-0.2361D-01	-0.1529D+02	-0.5833D+01	-0.5038D+01	-0.3456D+05
WD	-0.5137D+02	-0.1773D+00	0.4335D-01	0.2011D+01	0.7345D+00	0.7692D-02	0.4981D+01	0.1901D+01	0.1642D+01	0.1126D+05
SAT	-0.2723D+02	-0.9398D-01	0.2298D-01	0.1066D+01	0.3893D+00	0.4077D-02	0.2640D+01	0.1007D+01	0.8700D+00	0.5968D+04
SHD	-0.3736D+02	-0.1290D+00	0.3153D-01	0.1462D+01	0.5342D+00	0.5594D-02	0.3622D+01	0.1382D+01	0.1194D+01	0.8188D+04
constant	-0.1252D-03	-0.4322D-06	0.1057D-06	0.4902D-05	0.1790D-05	0.1875D-07	0.1214D-04	0.4633D-05	0.4001D-05	0.2745D-01
X(k)	DUM78RAU	SED78RAU	CONSTA	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL
X(1)										
DISCEIN	0.1592D+00	-0.2198D+00	-0.1166D+00	0.2918D-09	0.2482D-09	-0.1224D+02	-0.5106D+01	-0.1245D-01	0.6977D+01	0.6480D-01
LVCEI	0.1038D+01	-0.1434D+01	-0.7609D+00	0.1904D-08	0.1620D-08	-0.7987D+02	-0.3332D+02	-0.8125D-01	0.4552D+02	0.4228D+00
P08PC	0.1990D+01	-0.2748D+01	-0.1458D+01	0.3648D-08	0.3103D-08	-0.1530D+03	-0.6383D+02	-0.1557D+00	0.8722D+02	0.8101D+00
PTDEM	-0.5906D+00	0.8156D+00	0.4327D+00	-0.1083D-08	-0.9211D-09	0.4542D+02	0.1895D+02	0.4621D-01	-0.2589D+02	-0.2405D+00
NCROUT04	-0.1071D+01	0.1479D+01	0.7847D+00	-0.1964D-08	-0.1670D-08	0.8237D+02	0.3436D+02	0.8379D-01	-0.4695D+02	-0.4361D+00
GRPOL	-0.1825D+01	0.2520D+01	0.1337D+01	-0.3346D-08	-0.2846D-08	0.1403D+03	0.5854D+02	0.1428D+00	-0.7999D+02	-0.7429D+00
STR813	0.2963D+02	-0.4093D+02	-0.2171D+02	0.5434D-07	0.4622D-07	-0.2279D+04	-0.9507D+03	-0.2319D+01	0.1299D+04	0.1207D+02
STRP	-0.3715D+03	0.5131D+03	0.2722D+03	-0.6812D-06	-0.5794D-06	0.2857D+05	0.1192D+05	0.2907D+02	-0.1629D+05	-0.1513D+03
STRCUQ	-0.8995D+02	0.1242D+03	0.6591D+02	-0.1649D-06	-0.1403D-06	0.6918D+04	0.2886D+04	0.7038D+01	-0.3943D+04	-0.3662D+02
GRVOY	0.1785D+03	-0.2465D+03	-0.1308D+03	0.3272D-06	0.2783D-06	-0.1373D+05	-0.5725D+04	-0.1396D+02	0.7823D+04	0.7266D+02
AUTPKRP	-0.1086D+00	0.1501D+00	0.7961D-01	-0.1992D-09	-0.1695D-09	0.8356D+01	0.3485D+01	0.8500D-02	-0.4763D+01	-0.4424D-01
GRMUMH	-0.3148D+02	0.4347D+02	0.2306D+02	-0.5772D-07	-0.4909D-07	0.2421D+04	0.1010D+04	0.2463D+01	-0.1380D+04	-0.1282D+02
TLK822	0.1288D+03	-0.1778D+03	-0.9434D+02	0.2361D-06	0.2008D-06	-0.9902D+04	-0.4130D+04	-0.1007D+02	0.5644D+04	0.5242D+02
RFK822	0.2776D+01	-0.3833D+01	-0.2034D+01	0.5090D-08	0.4329D-08	-0.2135D+03	-0.8904D+02	-0.2172D+00	0.1217D+03	0.1130D+01
SFK822	0.7599D+01	-0.1050D+02	-0.5568D+01	0.1393D-07	0.1185D-07	-0.5845D+03	-0.2438D+03	-0.5946D+00	0.3331D+03	0.3094D+01
CSFMR822	0.7256D+03	-0.1002D+04	-0.5317D+03	0.1331D-05	0.1132D-05	-0.5581D+05	-0.2328D+05	-0.5677D+02	0.3181D+05	0.2954D+03
LOIIND61	0.1121D+01	-0.1548D+01	-0.8211D+00	0.2055D-08	0.1748D-08	-0.8619D+02	-0.3595D+02	-0.8768D-01	0.4912D+02	0.4563D+00
LOIAS	0.2937D+01	-0.4056D+01	-0.2152D+01	0.5385D-08	0.4580D-08	-0.2259D+03	-0.9422D+02	-0.2298D+00	0.1287D+03	0.1196D+01
MOP62	0.3400D+01	-0.4696D+01	-0.2491D+01	0.6235D-08	0.5303D-08	-0.2615D+03	-0.1091D+03	-0.2660D+00	0.1490D+03	0.1384D+01
PRMVACR1	0.4957D-03	-0.6846D-03	-0.3632D-03	0.9090D-12	0.7732D-12	-0.3813D-01	-0.1590D-01	-0.3878D-04	0.2173D-01	0.2018D-03
DUM78RAU	0.1000D+01	-0.1381D+01	-0.7327D+00	0.1834D-08	0.1560D-08	-0.7691D+02	-0.3208D+02	-0.7824D-01	0.4384D+02	0.4072D+00
SED78RAU	-0.7240D+00	0.1000D+01	0.5305D+00	-0.1328D-08	-0.1129D-08	0.5569D+02	0.2323D+02	0.5665D-01	-0.3174D+02	-0.2948D+00
CONSTA	-0.1365D+01	0.1885D+01	0.1000D+01	-0.2502D-08	-0.2129D-08	0.1050D+03	0.4378D+02	0.1068D+00	-0.5983D+02	-0.5557D+00
KMPARR1	0.5454D+09	-0.7532D+09	-0.3996D+09	0.1000D+01	0.8506D+00	-0.4194D+11	-0.1750D+11	-0.4267D+08	0.2391D+11	0.2220D+09
DICR1	0.6412D+09	-0.8855D+09	-0.4698D+09	0.1176D+01	0.1000D+01	-0.4931D+11	-0.2057D+11	-0.5016D+08	0.2811D+11	0.2611D+09

PGRPKM	-0.1300D-01	0.1796D-01	0.9527D-02	-0.2384D-10	-0.2028D-10	0.1000D+01	0.4171D+00	0.1017D-02	-0.5700D+00	-0.5294D-02
PDRQ	-0.3117D-01	0.4305D-01	0.2284D-01	-0.5716D-10	-0.4862D-10	0.2397D+01	0.1000D+01	0.2439D-02	-0.1366D+01	-0.1269D-01
ENTRNMDC	-0.1278D+02	0.1765D+02	0.9365D+01	-0.2344D-07	-0.1993D-07	0.9830D+03	0.4100D+03	0.1000D+01	-0.5603D+03	-0.5204D+01
FPAS	0.2281D-01	-0.3151D-01	-0.1672D-01	0.4183D-10	0.3558D-10	-0.1754D+01	-0.7318D+00	-0.1785D-02	0.1000D+01	0.9288D-02
SURPOL	0.2456D+01	-0.3392D+01	-0.1800D+01	0.4504D-08	0.3831D-08	-0.1889D+03	-0.7879D+02	-0.1922D+00	0.1077D+03	0.1000D+01
PERPA	-0.4605D+00	0.6359D+00	0.3374D+00	-0.8443D-09	-0.7182D-09	0.3541D+02	0.1477D+02	0.3603D-01	-0.2018D+02	-0.1875D+00
PRCHOM	-0.2067D-01	0.2854D-01	0.1514D-01	-0.3790D-10	-0.3223D-10	0.1589D+01	0.6630D+00	0.1617D-02	-0.9060D+00	-0.8415D-02
PRFEVM	0.6750D-02	-0.9322D-02	-0.4946D-02	0.1238D-10	0.1053D-10	-0.5191D+00	-0.2165D+00	-0.5281D-03	0.2959D+00	0.2748D-02
HEUHM	0.1075D+02	-0.1484D+02	-0.7873D+01	0.1970D-07	0.1676D-07	-0.8264D+03	-0.3447D+03	-0.8407D+00	0.4710D+03	0.4375D+01
PRMED	0.1690D+01	-0.2333D+01	-0.1238D+01	0.3098D-08	0.2635D-08	-0.1299D+03	-0.5420D+02	-0.1322D+00	0.7406D+02	0.6879D+00
PRALT	0.3051D+00	-0.4214D+00	-0.2235D+00	0.5594D-09	0.4758D-09	-0.2346D+02	-0.9787D+01	-0.2387D-01	0.1337D+02	0.1242D+00
PRMTRAR1	0.1361D-04	-0.1879D-04	-0.9971D-05	0.2495D-13	0.2122D-13	-0.1047D-02	-0.4366D-03	-0.1065D-05	0.5965D-03	0.5541D-05
PRMMAGR1	-0.9280D-01	0.1282D+00	0.6800D-01	-0.1702D-09	-0.1447D-09	0.7138D+01	0.2977D+01	0.7261D-02	-0.4068D+01	-0.3779D-01
DMSR	-0.1713D+02	0.2366D+02	0.1255D+02	-0.3141D-07	-0.2672D-07	0.1317D+04	0.5495D+03	0.1340D+01	-0.7509D+03	-0.6974D+01
WD	0.5582D+01	-0.7709D+01	-0.4090D+01	0.1023D-07	0.8705D-08	-0.4293D+03	-0.1791D+03	-0.4367D+00	0.2447D+03	0.2273D+01
SAT	0.2958D+01	-0.4086D+01	-0.2168D+01	0.5424D-08	0.4614D-08	-0.2275D+03	-0.9490D+02	-0.2314D+00	0.1297D+03	0.1204D+01
SHD	0.4059D+01	-0.5606D+01	-0.2974D+01	0.7443D-08	0.6331D-08	-0.3122D+03	-0.1302D+03	-0.3176D+00	0.1779D+03	0.1653D+01
constant	0.1361D-04	-0.1879D-04	-0.9969D-05	0.2495D-13	0.2122D-13	-0.1046D-02	-0.4365D-03	-0.1064D-05	0.5964D-03	0.5539D-05
=====										
X(k)	PERPA	PRCHOM	PRFEVM	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	DMSR	WD
=====										
X(l)										
=====										
DISCEIN	-0.3456D+00	-0.7701D+01	0.2358D+02	0.1481D-01	0.9420D-01	0.5217D+00	0.1170D+05	-0.1715D+01	-0.9291D-02	0.2851D-01
LVCEI	-0.2255D+01	-0.5025D+02	0.1539D+03	0.9665D-01	0.6147D+00	0.3404D+01	0.7631D+05	-0.1119D+02	-0.6063D-01	0.1861D+00
P08PC	-0.4321D+01	-0.9627D+02	0.2948D+03	0.1852D+00	0.1178D+01	0.6521D+01	0.1462D+06	-0.2144D+02	-0.1161D+00	0.3565D+00
PTDEM	0.1283D+01	0.2858D+02	-0.8750D+02	-0.5496D-01	-0.3495D+00	-0.1936D+01	-0.4340D+05	0.6364D+01	0.3448D-01	-0.1058D+00
NCROUT04	0.2326D+01	0.5182D+02	-0.1587D+03	-0.9967D-01	-0.6339D+00	-0.3510D+01	-0.7870D+05	0.1154D+02	0.6252D-01	-0.1919D+00
GRPOL	0.3963D+01	0.8829D+02	-0.2703D+03	-0.1698D+00	-0.1080D+01	-0.5981D+01	-0.1341D+06	0.1966D+02	0.1065D+00	-0.3269D+00
STR813	-0.6436D+02	-0.1434D+04	0.4390D+04	0.2758D+01	0.1754D+02	0.9713D+02	0.2178D+07	-0.3193D+03	-0.1730D+01	0.5309D+01
STRP	0.8068D+03	0.1798D+05	-0.5504D+05	-0.3457D+02	-0.2199D+03	-0.1218D+04	-0.2730D+08	0.4003D+04	0.2169D+02	-0.6656D+02
STRCUQ	0.1953D+03	0.4352D+04	-0.1333D+05	-0.8371D+01	-0.5324D+02	-0.2948D+03	-0.6610D+07	0.9692D+03	0.5251D+01	-0.1612D+02
GRVOY	-0.3876D+03	-0.8635D+04	0.2644D+05	0.1661D+02	0.1056D+03	0.5850D+03	0.1311D+08	-0.1923D+04	-0.1042D+02	0.3197D+02
AUTPKRP	0.2360D+00	0.5257D+01	-0.1610D+02	-0.1011D-01	-0.6431D-01	-0.3561D+00	-0.7984D+04	0.1171D+01	0.6343D-02	-0.1947D-01
GRMUMH	0.6836D+02	0.1523D+04	-0.4663D+04	-0.2929D+01	-0.1863D+02	-0.1032D+03	-0.2313D+07	0.3392D+03	0.1838D+01	-0.5639D+01
TLK822	-0.2796D+03	-0.6230D+04	0.1908D+05	0.1198D+02	0.7621D+02	0.4220D+03	0.9461D+07	-0.1387D+04	-0.7516D+01	0.2307D+02
RFK822	-0.6028D+01	-0.1343D+03	0.4112D+03	0.2583D+00	0.1643D+01	0.9098D+01	0.2040D+06	-0.2991D+02	-0.1620D+00	0.4973D+00
SFK822	-0.1650D+02	-0.3677D+03	0.1126D+04	0.7072D+00	0.4498D+01	0.2491D+02	0.5584D+06	-0.8189D+02	-0.4436D+00	0.1361D+01
CSFMR822	-0.1576D+04	-0.3511D+05	0.1075D+06	0.6753D+02	0.4295D+03	0.2378D+04	0.5332D+08	-0.7819D+04	-0.4236D+02	0.1300D+03
LOIIND61	-0.2434D+01	-0.5422D+02	0.1660D+03	0.1043D+00	0.6633D+00	0.3673D+01	0.8235D+05	-0.1208D+02	-0.6542D-01	0.2008D+00
LOIAS	-0.6378D+01	-0.1421D+03	0.4351D+03	0.2733D+00	0.1738D+01	0.9626D+01	0.2158D+06	-0.3165D+02	-0.1714D+00	0.5262D+00
MOP62	-0.7384D+01	-0.1645D+03	0.5037D+03	0.3164D+00	0.2012D+01	0.1114D+02	0.2499D+06	-0.3664D+02	-0.1985D+00	0.6092D+00
PRMVACR1	-0.1077D-02	-0.2399D-01	0.7344D-01	0.4613D-04	0.2934D-03	0.1625D-02	0.3643D+02	-0.5342D-02	-0.2894D-04	0.8881D-04
DUM78RAU	-0.2172D+01	-0.4839D+02	0.1482D+03	0.9306D-01	0.5919D+00	0.3278D+01	0.7349D+05	-0.1078D+02	-0.5838D-01	0.1792D+00
SED78RAU	0.1572D+01	0.3503D+02	-0.1073D+03	-0.6738D-01	-0.4285D+00	-0.2373D+01	-0.5321D+05	0.7802D+01	0.4227D-01	-0.1297D+00
CONSTA	0.2964D+01	0.6604D+02	-0.2022D+03	-0.1270D+00	-0.8078D+00	-0.4473D+01	-0.1003D+06	0.1471D+02	0.7967D-01	-0.2445D+00
KMPARR1	-0.1184D+10	-0.2639D+11	0.8080D+11	0.5075D+08	0.3228D+09	0.1788D+10	0.4008D+14	-0.5876D+10	-0.3184D+08	0.9771D+08
DICR1	-0.1392D+10	-0.3102D+11	0.9499D+11	0.5967D+08	0.3795D+09	0.2102D+10	0.4712D+14	-0.6909D+10	-0.3743D+08	0.1149D+09
PGRPKM	0.2824D-01	0.6291D+00	-0.1926D+01	-0.1210D-02	-0.7696D-02	-0.4262D-01	-0.9555D+03	0.1401D+00	0.7590D-03	-0.2329D-02
PDRQ	0.6770D-01	0.1508D+01	-0.4618D+01	-0.2901D-02	-0.1845D-01	-0.1022D+00	-0.2291D+04	0.3359D+00	0.1820D-02	-0.5585D-02
ENTRNMDC	0.2776D+02	0.6184D+03	-0.1894D+04	-0.1189D+01	-0.7565D+01	-0.4189D+02	-0.9392D+06	0.1377D+03	0.7461D+00	-0.2290D+01
FPAS	-0.4954D-01	-0.1104D+01	0.3380D+01	0.2123D-02	0.1350D-01	0.7477D-01	0.1676D+04	-0.2458D+00	-0.1332D-02	0.4087D-02
SURPOL	-0.5334D+01	-0.1188D+03	0.3639D+03	0.2286D+00	0.1454D+01	0.8050D+01	0.1805D+06	-0.2647D+02	-0.1434D+00	0.4400D+00

PERPA	0.1000D+01	0.2228D+02	-0.6822D+02	-0.4285D-01	-0.2725D+00	-0.1509D+01	-0.3384D+05	0.4962D+01	0.2688D-01	-0.8250D-01						
PRCHOM	0.4488D-01	0.1000D+01	-0.3062D+01	-0.1923D-02	-0.1223D-01	-0.6774D-01	-0.1519D+04	0.2227D+00	0.1206D-02	-0.3703D-02						
PRFEVM	-0.1466D-01	-0.3266D+00	0.1000D+01	0.6281D-03	0.3995D-02	0.2212D-01	0.4960D+03	-0.7273D-01	-0.3940D-03	0.1209D-02						
HEUHM	-0.2334D+02	-0.5199D+03	0.1592D+04	0.1000D+01	0.6360D+01	0.3522D+02	0.7896D+06	-0.1158D+03	-0.6273D+00	0.1925D+01						
PRMED	-0.3669D+01	-0.8175D+02	0.2503D+03	0.1572D+00	0.1000D+01	0.5538D+01	0.1242D+06	-0.1821D+02	-0.9863D-01	0.3027D+00						
PRALT	-0.6626D+00	-0.1476D+02	0.4520D+02	0.2839D-01	0.1806D+00	0.1000D+01	0.2242D+05	-0.3287D+01	-0.1781D-01	0.5466D-01						
PRMTRAR1	-0.2955D-04	-0.6585D-03	0.2016D-02	0.1266D-05	0.8054D-05	0.4460D-04	0.1000D+01	-0.1466D-03	-0.7944D-06	0.2438D-05						
PRMMAGR1	0.2015D+00	0.4490D+01	-0.1375D+02	-0.8637D-02	-0.5493D-01	-0.3042D+00	-0.6820D+04	0.1000D+01	0.5418D-02	-0.1663D-01						
DMSR	0.3720D+02	0.8289D+03	-0.2538D+04	-0.1594D+01	-0.1014D+02	-0.5615D+02	-0.1259D+07	0.1846D+03	0.1000D+01	-0.3069D+01						
WD	-0.1212D+02	-0.2701D+03	0.8269D+03	0.5194D+00	0.3304D+01	0.1830D+02	0.4102D+06	-0.6014D+02	-0.3258D+00	0.1000D+01						
SAT	-0.6425D+01	-0.1431D+03	0.4383D+03	0.2753D+00	0.1751D+01	0.9696D+01	0.2174D+06	-0.3188D+02	-0.1727D+00	0.5300D+00						
SHD	-0.8816D+01	-0.1964D+03	0.6014D+03	0.3778D+00	0.2403D+01	0.1330D+02	0.2983D+06	-0.4374D+02	-0.2370D+00	0.7272D+00						
constant	-0.2955D-04	-0.6583D-03	0.2016D-02	0.1266D-05	0.8053D-05	0.4459D-04	0.9998D+00	-0.1466D-03	-0.7942D-06	0.2438D-05						
=====																
	X(k)	SAT	SHD	constant												
X(1)																
=====																
DISCEIN	0.5380D-01	0.3921D-01	0.1170D+05													
LVCEI	0.3511D+00	0.2558D+00	0.7633D+05													
P08PC	0.6726D+00	0.4901D+00	0.1462D+06													
PTDEM	-0.1996D+00	-0.1455D+00	-0.4341D+05													
NCROUT04	-0.3620D+00	-0.2638D+00	-0.7872D+05													
GRPOL	-0.6168D+00	-0.4495D+00	-0.1341D+06													
STR813	0.1002D+02	0.7301D+01	0.2178D+07													
STRP	-0.1256D+03	-0.9152D+02	-0.2731D+08													
STRCUQ	-0.3041D+02	-0.2216D+02	-0.6611D+07													
GRVOY	0.6033D+02	0.4397D+02	0.1312D+08													
AUTPKRP	-0.3673D-01	-0.2677D-01	-0.7986D+04													
GRMUMH	-0.1064D+02	-0.7754D+01	-0.2314D+07													
TLK822	0.4352D+02	0.3172D+02	0.9464D+07													
RFK822	0.9383D+00	0.6838D+00	0.2040D+06													
SFK822	0.2569D+01	0.1872D+01	0.5586D+06													
CSFMR822	0.2453D+03	0.1788D+03	0.5334D+08													
LOIIND61	0.3788D+00	0.2761D+00	0.8237D+05													
LOIAS	0.9928D+00	0.7235D+00	0.2159D+06													
MOP62	0.1149D+01	0.8376D+00	0.2499D+06													
PRMVACR1	0.1676D-03	0.1221D-03	0.3644D+02													
DUM78RAU	0.3380D+00	0.2464D+00	0.7350D+05													
SED78RAU	-0.2448D+00	-0.1784D+00	-0.5322D+05													
CONSTA	-0.4613D+00	-0.3362D+00	-0.1003D+06													
KMPARR1	0.1844D+09	0.1344D+09	0.4008D+14													
DICR1	0.2167D+09	0.1580D+09	0.4713D+14													
PGRPKM	-0.4395D-02	-0.3203D-02	-0.9557D+03													
PDRQ	-0.1054D-01	-0.7679D-02	-0.2291D+04													
ENTRNMDC	-0.4321D+01	-0.3149D+01	-0.9394D+06													
PPAS	0.7711D-02	0.5620D-02	0.1677D+04													
SURPOL	0.8302D+00	0.6051D+00	0.1805D+06													
PERPA	-0.1557D+00	-0.1134D+00	-0.3384D+05													
PRCHOM	-0.6986D-02	-0.5091D-02	-0.1519D+04													
PRFEVM	0.2282D-02	0.1663D-02	0.4961D+03													
HEUHM	0.3632D+01	0.2647D+01	0.7898D+06													
PRMED	0.5711D+00	0.4162D+00	0.1242D+06													

```
new absolute minimum , parameters for fcn entry      27  follow - - f,x(i)
```

```

-0.3871189238D+03 0.28168D+00 -0.16849D+00 -0.65378D-01 0.65964D-01 -0.20786D+00 -0.11844D+00 -0.19754D-01 -0.18501D+00
0.25518D+00 0.19232D+00

new absolute minimum , parameters for fcn entry 29 follow - - f,x(i)
-0.3871191724D+03 0.28058D+00 -0.16783D+00 -0.65709D-01 0.65536D-01 -0.20750D+00 -0.11942D+00 -0.19683D-01 -0.18540D+00
0.25487D+00 0.19185D+00

new absolute minimum , parameters for fcn entry 31 follow - - f,x(i)
-0.3871214477D+03 0.28213D+00 -0.16804D+00 -0.66870D-01 0.63634D-01 -0.20625D+00 -0.12019D+00 -0.20332D-01 -0.18450D+00
0.25705D+00 0.19103D+00

new absolute minimum , parameters for fcn entry 33 follow - - f,x(i)
-0.3871216182D+03 0.28230D+00 -0.16789D+00 -0.66575D-01 0.63632D-01 -0.20712D+00 -0.12010D+00 -0.20094D-01 -0.18440D+00
0.25716D+00 0.19056D+00

new absolute minimum , parameters for fcn entry 34 follow - - f,x(i)
-0.3871216187D+03 0.28230D+00 -0.16789D+00 -0.66592D-01 0.63629D-01 -0.20713D+00 -0.12009D+00 -0.20060D-01 -0.18441D+00
0.25713D+00 0.19055D+00

new absolute minimum , parameters for fcn entry 35 follow - - f,x(i)
-0.3871216187D+03 0.28230D+00 -0.16789D+00 -0.66591D-01 0.63630D-01 -0.20713D+00 -0.12009D+00 -0.20060D-01 -0.18441D+00
0.25714D+00 0.19055D+00

new absolute minimum , parameters for fcn entry 36 follow - - f,x(i)
-0.3871216187D+03 0.28230D+00 -0.16789D+00 -0.66591D-01 0.63630D-01 -0.20713D+00 -0.12009D+00 -0.20061D-01 -0.18441D+00
0.25714D+00 0.19055D+00

new absolute minimum , parameters for fcn entry 37 follow - - f,x(i)
-0.3871216187D+03 0.28230D+00 -0.16789D+00 -0.66591D-01 0.63630D-01 -0.20713D+00 -0.12009D+00 -0.20061D-01 -0.18441D+00
0.25714D+00 0.19055D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.3871216187D+03 0.28230D+00 -0.16789D+00 -0.66591D-01 0.63630D-01 -0.20713D+00 -0.12009D+00 -0.20061D-01 -0.18441D+00
0.25714D+00 0.19055D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3871216187D+03 for entry 37 - - x(i) follows
0.28230D+00 -0.16789D+00 -0.66591D-01 0.63630D-01 -0.20713D+00 -0.12009D+00 -0.20061D-01 -0.18441D+00 0.25714D+00 0.19055D+00

```

run statistics follow - -

nfcn= 37 nst= 17

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

```

Estimation Sample : 14 313

OBSERVED Y      FITTED E(Y)
MEAN            0.9221590D+04 0.9220913D+04
STD. ERROR      0.3478019D+04 0.3374056D+04
SKEWNESS        0.6562864    0.4903544

```

E(y) at the means : 0.9007452D+04

Sig(y) at the means : 0.6953616D+03

C.o.V. at the means : 0.0771985

Gam(y) at the means : 0.1862852

Pearson-R2 : 0.9567651

Pearson-R2 bar : 0.9476631

Pseudo-(1)-R2 : 0.9669810

Pseudo-(1)-R2 bar : 0.9600296

Error Variance : 0.1913562D+00

Log-likelihood : -0.2375980D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)	COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
						y(sample)	E(y)	y(sample)	E(y)
						SIGMA(y)	GAMMA(y)	SIGMA(y)	GAMMA(y)
	type	group				-first obs	14	-first obs	302
						-last obs	313	-last obs	313
1 DISCEIN	NL	0	0.4253589D+01	0.1661509D-05	0.3592904D+01	1.1839	0.3422	0.3436	0.7300
					0.1010162D+01	4.2108		0.2780	0.5909
								-0.0674	-0.1436
2 LVCEI	NL	0	0.3080066D+00	0.9105061D-06	0.3121223D+00	0.9868	0.0138	0.0139	0.0529
					0.2087414D+00	1.4755		0.0112	0.0428
								-0.0027	-0.0104
3 P08PC	NL	0	0.7892481D-01	0.1904123D-05	0.2784574D+00	0.2834	0.0073	0.0073	0.0135
					0.2716492D+00	0.2905		0.0059	0.0110
								-0.0014	-0.0027
4 PTDEM	NL	0	-0.1427613D+01	0.1415939D-05	0.1176191D+01	-1.2138	-0.0986	-0.0990	-0.2450
					0.2505068D+00	-5.6989		-0.0801	-0.1983

5	NCR0UT04	NL	0	-0.7330400D+00	0.9316972D-07	0.7171087D+00 0.4332422D+00	-1.0222 -1.6920	-0.0039	0.0194 -0.0039 -0.0031 0.0008	-0.0944	-0.0944 -0.0764 0.0186
6	GRPOL	NL	0	-0.1822861D+00	0.3846332D-07	0.3932256D+00 0.3635543D+00	-0.4636 -0.5014	-0.0003	-0.0003 -0.0003 0.0001	0.0000	0.0000 0.0000 0.0000
7	STR813	NL	0	0.7467122D-02	0.1739854D-05	0.1791290D-01 0.1757456D-01	0.4169 0.4249	0.0006	0.0006 0.0005 -0.0001	0.0014	0.0014 0.0011 -0.0003
8	STRP	NL	0	0.3004465D-01	0.4659931D-06	0.4361630D-01 0.3782368D-01	0.6888 0.7943	0.0007	0.0007 0.0005 -0.0001	0.0034	0.0034 0.0028 -0.0007
9	STRCUQ	NL	0	-0.9006173D-02	0.4664586D-05	0.9923993D-02 0.7553268D-02	-0.9075 -1.1924	-0.0021	-0.0021 -0.0017 0.0004	-0.0019	-0.0019 -0.0016 0.0004
10	GRVOY	NL	0	-0.8240382D-02	0.2853839D-05	0.1498047D-01 0.1388556D-01	-0.5501 -0.5934	-0.0011	-0.0011 -0.0009 0.0002	0.0000	0.0000 0.0000 0.0000
11	AUTPKRP	NL	0	-0.7150817D+01	0.1192397D-05	0.5836270D+01 0.1849582D+01	-1.2252 -3.8662	-0.4082	-0.4099 -0.3317 0.0804	-0.6306	-0.6307 -0.5104 0.1240
12	GRMUMH	NL	0	-0.2247673D-02	0.6238541D-06	0.1535031D-01 0.1521447D-01	-0.1464 -0.1477	-0.0001	-0.0001 -0.0001 0.0000	0.0000	0.0000 0.0000 0.0000
13	TLK822	NL	0	0.5410219D-02	0.7189024D-03	0.4366599D-02 0.6070558D-03	1.2390 8.9122	0.1832	0.1839 0.1488 -0.0361	0.1750	0.1751 0.1417 -0.0344
14	RFK822	NL	0	0.2478290D+00	0.2860604D-05	0.2014366D+00 0.7029399D-01	1.2303 3.5256	0.0335	0.0337 0.0273 -0.0066	0.0322	0.0322 0.0261 -0.0063
15	SFK822	NL	0	0.8550418D-01	0.9387751D-05	0.7255912D-01 0.1591005D-01	1.1784 5.3742	0.0377	0.0378 0.0306 -0.0074	0.0240	0.0240 0.0194 -0.0047
16	CSFMR822	NL	0	0.6164093D-02	0.8797429D-04	0.5234185D-02 0.2609555D-02	1.1777 2.3621	0.0255	0.0256 0.0207 -0.0050	0.0212	0.0212 0.0171 -0.0042
17	LOIIND61	NL	0	0.1409077D+01	0.3179978D-05	0.1112499D+01 0.2175552D+00	1.2666 6.4769	0.2128	0.2136 0.1729 -0.0419	0.2418	0.2419 0.1957 -0.0476
18	LOIAS	NL	0	0.4779741D+00	0.6844037D-06	0.6109503D+00 0.4451978D+00	0.7823 1.0736	0.0162	0.0163 0.0132 -0.0032	0.0820	0.0820 0.0664 -0.0161
19	MOP62	NL	0	0.6999448D+00	0.3028725D-05	0.5520921D+00 0.2541774D+00	1.2678 2.7538	0.1008	0.1012 0.0819 -0.0198	0.1201	0.1202 0.0972 -0.0236
20	PRMVACR1	NL	0	0.3865391D+04	0.1624269D-09	0.3516446D+04 0.1629246D+04	1.0992 2.3725	0.0295	0.0296 0.0240 -0.0058	0.0327	0.0327 0.0265 -0.0064
21	DUM78RAU	NL	0	0.1712998D+00	0.1450165D-06	0.5639831D+00 0.5444380D+00	0.3037 0.3146	0.0012	0.0012 0.0010 -0.0002	0.0000	0.0000 0.0000 0.0000
22	SED78RAU	NL	0	-0.2776244D+00	0.6658201D-07	0.7200507D+00 0.7001773D+00	-0.3856 -0.3965	-0.0009	-0.0009 -0.0007 0.0002	0.0000	0.0000 0.0000 0.0000
23	CONSTA	NL	0	-0.4146960D+00	0.5035994D-06	0.5525598D+00 0.3984653D+00	-0.7505 -1.0407	-0.0104	-0.0105 -0.0085 0.0021	-0.0712	-0.0712 -0.0576 0.0140
24	KMPARR1	EL	1	0.7981730D-01	0.1192557D-02	0.9059066D-01 0.2116125D-01	0.8811 3.7719	0.8736	0.8771 0.7098 -0.1720	0.8805	0.8807 0.7127 -0.1732
25	DICR1	EL	1	0.1016826D-01	0.5504186D-03	0.9548553D-02 0.5825340D-02	1.0649 1.7455	0.0544	0.0547 0.0442 -0.0107	0.0590	0.0590 0.0478 -0.0116
26	PGRPKM	EL	1	0.5808159D+00	-0.1068944D-04	0.2143588D+01 0.2058653D+01	0.2710 0.2821	0.0464	0.0466 0.0377 -0.0091	0.0497	0.0497 0.0402 -0.0098
27	PDRQ	EL	1	-0.7398627D+01	-0.7155762D-05	0.7247348D+01 0.2316624D+01	-1.0209 -3.1937	-0.8257	-0.8290 -0.6709 0.1626	-0.8846	-0.8848 -0.7160 0.1740
28	ENTRNMD	EL	1	-0.1628310D+01	0.2338456D-04	0.8594762D+00 0.5366553D+00	-1.8945 -3.0342	-0.6296	-0.6321 -0.5115 0.1239	-0.6451	-0.6452 -0.5222 0.1269
29	PPAS	EL	1	0.8785448D+01	-0.5818865D-05	0.8268195D+01 0.2969609D+01	1.0626 2.9585	1.0891	1.0935 0.8850 -0.2144	1.1668	1.1671 0.9445 -0.2295
30	SURPOL	EL	1	0.7816513D+00	0.9574686D-05	0.6708982D+00 0.4110383D+00	1.1651 1.9017	0.2052	0.2060 0.1667 -0.0404	0.1979	0.1980 0.1602 -0.0389
31	PERPA	EL	1	-0.2024104D+01	0.9900688D-06	0.1926728D+01 0.1127278D+01	-1.0505 -1.7956	-0.3735	-0.3750 -0.3035 0.0735	-0.3730	-0.3731 -0.3019 0.0734
32	PRCHOM	EL	1	-0.2875375D+01	-0.9099238D-05	0.3093802D+01 0.6233281D+00	-0.9294 -4.6129	-0.2719	-0.2730 -0.2209 0.0535	-0.2862	-0.2862 -0.2316 0.0563
33	PRFEVM	EL	1	0.2936800D+01	-0.1122258D-04	0.4053436D+01 0.2205264D+01	0.7245 1.3317	0.2198	0.2207 0.1786 -0.0433	0.2114	0.2114 0.1711 -0.0416
34	HEUHM	EL	1	-0.2523204D+01	0.1999091D-04	0.1664473D+01 0.1232981D+01	-1.5159 -2.0464	-0.8962	-0.8998 -0.7281 0.1764	-0.8655	-0.8657 -0.7006 0.1702
35	PRMED	EL	1	0.2784842D+00	0.4489478D-05	0.5712216D+00 0.4689750D+00	0.4875 0.5938	0.0603	0.0605 0.0490 -0.0119	0.0613	0.0613 0.0496 -0.0121
36	PRALT	EL	1	0.2017304D+00	-0.1285580D-05	0.7139315D+00 0.6597974D+00	0.2826 0.3057	0.0332	0.0334 0.0270 -0.0065	0.0329	0.0329 0.0267 -0.0065
37	PRMTRAR1	EL	1	0.1690892D+02	-0.1657012D-04	0.2969325D+02 0.5598900D+01	0.5695 3.0200	0.4537	0.4555 0.3686 -0.0893	0.4268	0.4269 0.3455 -0.0839

38	PRMMAGR1	EL	1	0.1724402D+01	-0.6047035D-05	0.1866282D+01 0.1152765D+01	0.9240 1.4959	0.2093	0.2102 0.1701 -0.0412	0.2067	0.2068 0.1673 -0.0407
39	DMSR	EL	1	-0.1935429D+01	0.2723603D-04	0.7726817D+00 0.1482136D+00	-2.5048 -13.0584	-0.8155	-0.8188 -0.6626 0.1606	-0.7713	-0.7714 -0.6243 0.1517
40	WD	EL	1	0.1357110D+01	0.1531554D-04	0.9130250D+00 0.5863140D+00	1.4864 2.3146	0.4251	0.4268 0.3454 -0.0837	0.4160	0.4161 0.3368 -0.0818
41	SAT	EL	1	0.6382534D+00	0.6293878D-05	0.5190666D+00 0.2426878D+00	1.2296 2.6299	0.1483	0.1489 0.1205 -0.0292	0.1448	0.1449 0.1172 -0.0285
42	SHD	EL	1	0.6507094D+00	0.7191079D-05	0.4657749D+00 0.2186924D+00	1.3970 2.9755	0.1566	0.1572 0.1272 -0.0308	0.1522	0.1523 0.1232 -0.0299
43	constant	NL	0	0.1037699D+03	0.3723402D-05	0.1307396D+03 0.2577526D+02	0.7937 4.0259	18.2210	18.2944 14.8051 -3.5873	17.8093	17.8129 14.4156 -3.5028

Autocorrelation

44	rho 1			0.2750288D+00	-0.3240835D-07	0.6841221D-01 0.6841214D-01	4.0202 4.0202				
45	rho 2			-0.1663292D+00	-0.1918996D-07	0.6560075D-01 0.6558578D-01	-2.5355 -2.5361				
46	rho 3			-0.6649300D-01	-0.4958954D-07	0.7096224D-01 0.7084806D-01	-0.9370 -0.9385				
47	rho 4			0.6354459D-01	0.3554806D-08	0.6787651D-01 0.6769877D-01	0.9362 0.9386				
48	rho 5			-0.2042168D+00	-0.6916256D-07	0.6603009D-01 0.6601816D-01	-3.0928 -3.0933				
49	rho 6			-0.1195152D+00	-0.4959879D-07	0.7400373D-01 0.7369012D-01	-1.6150 -1.6219				
50	rho 8			-0.2005783D-01	-0.3893449D-07	0.6964089D-01 0.6962023D-01	-0.2880 -0.2881				
51	rho 10			-0.1823456D+00	-0.4639492D-07	0.6639770D-01 0.6638540D-01	-2.7463 -2.7468				
52	rho 12			0.2516141D+00	-0.7267463D-08	0.6463272D-01 0.6428639D-01	3.8930 3.9140				

Box-cox on (x)

53	lambda(x) 1 = lambda(y)			0.1905512D+00	0.1873158D-02	0.8875668D-01	2.1469 -9.1199				
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Residual (w)

54	error variance			0.1913562D+00	0.1376677D-12	0.3056306D+00 0.1933616D-01	0.6261 9.8963				
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LAMBDA TYPE SYMBOL:
 NL = NO LAMBDA
 FL = FIXED LAMBDA
 EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
 with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.6887522D+04	0.6754671D+04	0.4219946D+03	-0.2739246D-01
2 LVCEI	0.4987323D+03	0.4891124D+03	0.3055705D+02	-0.1983516D-02
3 P08PC	0.1277971D+03	0.1253321D+03	0.7830056D+01	-0.5082637D-03
4 PTDEM	-0.2311628D+04	-0.2267040D+04	-0.1416321D+03	0.9193609D-02
5 NCR0UT04	-0.1186957D+04	-0.1164063D+04	-0.7272422D+02	0.4720666D-02
6 GRPOL	-0.2951623D+03	-0.2894690D+03	-0.1808443D+02	0.1173894D-02
7 STR813	0.1209096D+02	0.1185774D+02	0.7408062D+00	-0.4808712D-04
8 STRP	0.4864907D+02	0.4771069D+02	0.2980701D+01	-0.1934829D-03
9 STRCUQ	-0.1458303D+02	-0.1430174D+02	-0.8934940D+00	0.5799837D-04
10 GRVOY	-0.1334304D+02	-0.1308567D+02	-0.8175206D+00	0.5306680D-04
11 AUTPKRP	-0.1157879D+05	-0.1135545D+05	-0.7094258D+03	0.4605016D-01
12 GRMUMH	-0.3639490D+01	-0.3569289D+01	-0.2229895D+00	0.1447467D-04
13 TLK822	0.8760366D+01	0.8591390D+01	0.5367427D+00	-0.3484098D-04
14 RFK822	0.4012912D+03	0.3935508D+03	0.2458689D+02	-0.1595981D-02
15 SFK822	0.1384506D+03	0.1357801D+03	0.8482790D+01	-0.5506339D-03

16	CSFMR822	0.9981058D+01	0.9788537D+01	0.6115339D+00	-0.3969581D-04
17	LOIIND61	0.2281614D+04	0.2237604D+04	0.1397932D+03	-0.9074238D-02
18	LOIAS	0.7739480D+03	0.7590196D+03	0.4741936D+02	-0.3078080D-02
19	MOP62	0.1133369D+04	0.1111507D+04	0.6944086D+02	-0.4507537D-02
20	PRMVACR1	0.6258942D+07	0.6138215D+07	0.3834819D+06	-0.2489253D+02
21	DUM78RAU	0.2773731D+03	0.2720230D+03	0.1699450D+02	-0.1103145D-02
22	SED78RAU	-0.4495366D+03	-0.4408657D+03	-0.2754286D+02	0.1787859D-02
23	CONSTA	-0.6714865D+03	-0.6585344D+03	-0.4114160D+02	0.2670579D-02
24	KMPARR1	0.3073617D-05	0.3014331D-05	0.1883188D-06	-0.1222413D-10
25	DICR1	0.8161853D-05	0.8004421D-05	0.5000721D-06	-0.3246062D-10
26	PGRPKM	0.2669508D+05	0.2618017D+05	0.1635593D+04	-0.1061694D+00
27	PDRQ	-0.8214783D+05	-0.8056330D+05	-0.5033151D+04	0.3267113D+00
28	ENTRNMD	-0.9222043D+02	-0.9044162D+02	-0.5650294D+01	0.3667712D-03
29	PPAS	0.6241345D+05	0.6120958D+05	0.3824037D+04	-0.2482255D+00
30	SURPOL	0.2291877D+03	0.2247670D+03	0.1404220D+02	-0.9115058D-03
31	PERPA	-0.2654051D+04	-0.2602858D+04	-0.1626122D+03	0.1055547D-01
32	PRCHOM	-0.6455848D+05	-0.6331323D+05	-0.3955462D+04	0.2567565D+00
33	PRFEVM	0.1778604D+06	0.1744297D+06	0.1089741D+05	-0.7073712D+00
34	HEUHM	-0.2049742D+03	-0.2010205D+03	-0.1255865D+02	0.8152058D-03
35	PRMED	0.1851134D+03	0.1815428D+03	0.1134179D+02	-0.7362172D-03
36	PRALT	0.4274626D+03	0.4192174D+03	0.2619039D+02	-0.1700068D-02
37	PRMTRAR1	0.8003688D+08	0.7849307D+08	0.4903815D+07	-0.3183158D+03
38	PRMMAGR1	0.1339395D+05	0.1313560D+05	0.8206399D+03	-0.5326928D-01
39	DMSR	-0.7606895D+02	-0.7460168D+02	-0.4660702D+01	0.3025349D-03
40	WD	0.1879339D+03	0.1843089D+03	0.1151461D+02	-0.7474348D-03
41	SAT	0.3145906D+03	0.3085225D+03	0.1927479D+02	-0.1251163D-02
42	SHD	0.2762666D+03	0.2709377D+03	0.1692670D+02	-0.1098744D-02
43	constant	0.1680268D+06	0.1647858D+06	0.1029491D+05	-0.6682620D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1601D+02	-0.2466D+06
SIGMA(y)	0.6247D-01	0.1000D+01	-0.1541D+05
GAMMA(y)	-0.4055D-05	-0.6491D-04	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1236D+01	-0.5100D+01
SIGMA(y)	0.8093D+00	0.1000D+01	-0.4127D+01
GAMMA(y)	-0.1961D+00	-0.2423D+00	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.7241D-01	0.1855D-01	-0.3356D+00	-0.1723D+00	-0.4285D-01	0.1755D-02	0.7063D-02	-0.2117D-02	-0.1937D-02
LVCEI		0.1381D+02	0.1000D+01	0.2562D+00	-0.4635D+01	-0.2380D+01	-0.5918D+00	0.2424D-01	0.9755D-01	-0.2924D-01	-0.2675D-01
P08PC		0.5389D+02	0.3903D+01	0.1000D+01	-0.1809D+02	-0.9288D+01	-0.2310D+01	0.9461D-01	0.3807D+00	-0.1141D+00	-0.1044D+00
PTDEM		-0.2980D+01	-0.2157D+00	-0.5528D-01	0.1000D+01	0.5135D+00	0.1277D+00	-0.5230D-02	-0.2105D-01	0.6309D-02	0.5772D-02
NCROUT04		-0.5803D+01	-0.4202D+00	-0.1077D+00	0.1948D+01	0.1000D+01	0.2487D+00	-0.1019D-01	-0.4099D-01	0.1229D-01	0.1124D-01

GRPOL	-0.2333D+02	-0.1690D+01	-0.4330D+00	0.7832D+01	0.4021D+01	0.1000D+01	-0.4096D-01	-0.1648D+00	0.4941D-01	0.4521D-01
STR813	0.5696D+03	0.4125D+02	0.1057D+02	-0.1912D+03	-0.9817D+02	-0.2441D+02	0.1000D+01	0.4024D+01	-0.1206D+01	-0.1104D+01
STRP	0.1416D+03	0.1025D+02	0.2627D+01	-0.4752D+02	-0.2440D+02	-0.6067D+01	0.2485D+00	0.1000D+01	-0.2998D+00	-0.2743D+00
STRCUQ	-0.4723D+03	-0.3420D+02	-0.8763D+01	0.1585D+03	0.8139D+02	0.2024D+02	-0.8291D+00	-0.3336D+01	0.1000D+01	0.9150D+00
GRVOY	-0.5162D+03	-0.3738D+02	-0.9578D+01	0.1732D+03	0.8896D+02	0.2212D+02	-0.9062D+00	-0.3646D+01	0.1093D+01	0.1000D+01
AUTPKRP	-0.5948D+00	-0.4307D-01	-0.1104D-01	0.1996D+00	0.1025D+00	0.2549D-01	-0.1044D-02	-0.4202D-02	0.1259D-02	0.1152D-02
GRMUMH	-0.1892D+04	-0.1370D+03	-0.3511D+02	0.6352D+03	0.3261D+03	0.8110D+02	-0.3322D+01	-0.1337D+02	0.4007D+01	0.3666D+01
TLK822	0.7862D+03	0.5693D+02	0.1459D+02	-0.2639D+03	-0.1355D+03	-0.3369D+02	0.1380D+01	0.5553D+01	-0.1665D+01	-0.1523D+01
RFK822	0.1716D+02	0.1243D+01	0.3185D+00	-0.5760D+01	-0.2958D+01	-0.7355D+00	0.3013D-01	0.1212D+00	-0.3634D-01	-0.3325D-01
SFK822	0.4975D+02	0.3602D+01	0.9231D+00	-0.1670D+02	-0.8573D+01	-0.2132D+01	0.8733D-01	0.3514D+00	-0.1053D+00	-0.9637D-01
CSFMR822	0.6901D+03	0.4997D+02	0.1280D+02	-0.2316D+03	-0.1189D+03	-0.2957D+02	0.1211D+01	0.4874D+01	-0.1461D+01	-0.1337D+01
LOIIND61	0.3019D+01	0.2186D+00	0.5601D-01	-0.1013D+01	-0.5202D+00	-0.1294D+00	0.5299D-02	0.2132D-01	-0.6392D-02	-0.5848D-02
LOIAS	0.8899D+01	0.6444D+00	0.1651D+00	-0.2987D+01	-0.1534D+01	-0.3814D+00	0.1562D-01	0.6286D-01	-0.1884D-01	-0.1724D-01
MOP62	0.6077D+01	0.4400D+00	0.1128D+00	-0.2040D+01	-0.1047D+01	-0.2604D+00	0.1067D-01	0.4292D-01	-0.1287D-01	-0.1177D-01
PRMVACR1	0.1100D-02	0.7968D-04	0.2042D-04	-0.3693D-03	-0.1896D-03	-0.4716D-04	0.1932D-05	0.7773D-05	-0.2330D-05	-0.2132D-05
DUM78RAU	0.2483D+02	0.1798D+01	0.4607D+00	-0.8334D+01	-0.4279D+01	-0.1064D+01	0.4359D-01	0.1754D+00	-0.5258D-01	-0.4811D-01
SED78RAU	-0.1532D+02	-0.1109D+01	-0.2843D+00	0.5142D+01	0.2640D+01	0.6566D+00	-0.2690D-01	-0.1082D+00	0.3244D-01	0.2968D-01
CONSTA	-0.1026D+02	-0.7427D+00	-0.1903D+00	0.3443D+01	0.1768D+01	0.4396D+00	-0.1801D-01	-0.7245D-01	0.2172D-01	0.1987D-01
KMPARR1	0.2241D+10	0.1623D+09	0.4158D+08	-0.7521D+09	-0.3862D+09	-0.9603D+08	0.3934D+07	0.1583D+08	-0.4745D+07	-0.4341D+07
DICR1	0.8439D+09	0.6111D+08	0.1566D+08	-0.2832D+09	-0.1454D+09	-0.3616D+08	0.1481D+07	0.5961D+07	-0.1787D+07	-0.1635D+07
PGRPKM	0.2580D+00	0.1868D-01	0.4787D-02	-0.8659D-01	-0.4446D-01	-0.1106D-01	0.4529D-03	0.1822D-02	-0.5463D-03	-0.4998D-03
PDRQ	-0.8384D-01	-0.6071D-02	-0.1556D-02	0.2814D-01	0.1445D-01	0.3593D-02	-0.1472D-03	-0.5922D-03	0.1775D-03	0.1624D-03
ENTRNMDC	-0.7469D+02	-0.5408D+01	-0.1386D+01	0.2507D+02	0.1287D+02	0.3201D+01	-0.1311D+00	-0.5275D+00	0.1581D+00	0.1447D+00
FPAS	0.1104D+00	0.7991D-02	0.2048D-02	-0.3704D-01	-0.1902D-01	-0.4729D-02	0.1937D-03	0.7795D-03	-0.2337D-03	-0.2138D-03
SURPOL	0.3005D+02	0.2176D+01	0.5576D+00	-0.1009D+02	-0.5179D+01	-0.1288D+01	0.5276D-01	0.2123D+00	-0.6363D-01	-0.5822D-01
PERPA	-0.2595D+01	-0.1879D+00	-0.4815D-01	0.8710D+00	0.4472D+00	0.1112D+00	-0.4556D-02	-0.1833D-01	0.5495D-02	0.5027D-02
PRCHOM	-0.1067D+00	-0.7725D-02	-0.1980D-02	0.3581D-01	0.1839D-01	0.4572D-02	-0.1873D-03	-0.7536D-03	0.2259D-03	0.2067D-03
PRFEVM	0.3872D-01	0.2804D-02	0.7185D-03	-0.1300D-01	-0.6674D-02	-0.1660D-02	0.6798D-04	0.2735D-03	-0.8199D-04	-0.7502D-04
HEUHM	-0.3360D+02	-0.2433D+01	-0.6235D+00	0.1128D+02	0.5791D+01	0.1440D+01	-0.5899D-01	-0.2373D+00	0.7115D-01	0.6510D-01
PRMED	0.3721D+02	0.2694D+01	0.6904D+00	-0.1249D+02	-0.6412D+01	-0.1594D+01	0.6532D-01	0.2628D+00	-0.7878D-01	-0.7208D-01
PRALT	0.1611D+02	0.1167D+01	0.2990D+00	-0.5408D+01	-0.2777D+01	-0.6905D+00	0.2829D-01	0.1138D+00	-0.3412D-01	-0.3121D-01
PRMTRAR1	0.8605D-04	0.6231D-05	0.1597D-05	-0.2888D-04	-0.1483D-04	-0.3688D-05	0.1511D-06	0.6078D-06	-0.1822D-06	-0.1667D-06
PRMMAGR1	0.5142D+00	0.3724D-01	0.9541D-02	-0.1726D+00	-0.8862D-01	-0.2204D-01	0.9027D-03	0.3632D-02	-0.1089D-02	-0.9962D-03
DMSR	-0.9054D+02	-0.6556D+01	-0.1680D+01	0.3039D+02	0.1560D+02	0.3880D+01	-0.1589D+00	-0.6395D+00	0.1917D+00	0.1754D+00
WD	0.3665D+02	0.2654D+01	0.6800D+00	-0.1230D+02	-0.6316D+01	-0.1571D+01	0.6434D-01	0.2589D+00	-0.7760D-01	-0.7100D-01
SAT	0.2189D+02	0.1585D+01	0.4062D+00	-0.7348D+01	-0.3773D+01	-0.9382D+00	0.3843D-01	0.1546D+00	-0.4636D-01	-0.4241D-01
SHD	0.2493D+02	0.1805D+01	0.4626D+00	-0.8367D+01	-0.4296D+01	-0.1068D+01	0.4377D-01	0.1761D+00	-0.5279D-01	-0.4830D-01
constant	0.4099D-01	0.2968D-02	0.7606D-03	-0.1376D-01	-0.7064D-02	-0.1757D-02	0.7196D-04	0.2895D-03	-0.8679D-04	-0.7941D-04
=====										
	X (k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62
	X (l)									PRMVACR1
=====										
DISCEIN	-0.1681D+01	-0.5284D-03	0.1272D-02	0.5826D-01	0.2010D-01	0.1449D-02	0.3313D+00	0.1124D+00	0.1646D+00	0.9087D+03
LVCEI	-0.2322D+02	-0.7297D-02	0.1757D-01	0.8046D+00	0.2776D+00	0.2001D-01	0.4575D+01	0.1552D+01	0.2272D+01	0.1255D+05
P08PC	-0.9060D+02	-0.2848D-01	0.6855D-01	0.3140D+01	0.1083D+01	0.7810D-01	0.1785D+02	0.6056D+01	0.8869D+01	0.4898D+05
PTDEM	0.5009D+01	0.1574D-02	-0.3790D-02	-0.1736D+00	-0.5989D-01	-0.4318D-02	-0.9870D+00	-0.3348D+00	-0.4903D+00	-0.2708D+04
NCROUT04	0.9755D+01	0.3066D-02	-0.7381D-02	-0.3381D+00	-0.1166D+00	-0.8409D-02	-0.1922D+01	-0.6520D+00	-0.9549D+00	-0.5273D+04
GRPOL	0.3923D+02	0.1233D-01	-0.2968D-01	-0.1360D+01	-0.4691D+00	-0.3382D-01	-0.7730D+01	-0.2622D+01	-0.3840D+01	-0.2121D+05
STR813	-0.9576D+03	-0.3010D+00	0.7245D+00	0.3319D+02	0.1145D+02	0.8255D+00	0.1887D+03	0.6401D+02	0.9374D+02	0.5177D+06
STRP	-0.2380D+03	-0.7481D-01	0.1801D+00	0.8249D+01	0.2846D+01	0.2052D+00	0.4690D+02	0.1591D+02	0.2330D+02	0.1287D+06
STRCUQ	0.7940D+03	0.2496D+00	-0.6007D+00	-0.2752D+02	-0.9494D+01	-0.6844D+00	-0.1565D+03	-0.5307D+02	-0.7772D+02	-0.4292D+06
GRVOY	0.8678D+03	0.2728D+00	-0.6565D+00	-0.3007D+02	-0.1038D+02	-0.7480D+00	-0.1710D+03	-0.5800D+02	-0.8494D+02	-0.4691D+06

AUTPKRP	0.1000D+01	0.3143D-03	-0.7566D-03	-0.3466D-01	-0.1196D-01	-0.8620D-03	-0.1971D+00	-0.6684D-01	-0.9788D-01	-0.5406D+03	
GRMUMH	0.3181D+04	0.1000D+01	-0.2407D+01	-0.1103D+03	-0.3804D+02	-0.2742D+01	-0.6269D+03	-0.2127D+03	-0.3114D+03	-0.1720D+07	
TLK822	-0.1322D+04	-0.4154D+00	0.1000D+01	0.4581D+02	0.1580D+02	0.1139D+01	0.2604D+03	0.8835D+02	0.1294D+03	0.7145D+06	
RFK822	-0.2885D+02	-0.9069D-02	0.2183D-01	0.1000D+01	0.3450D+00	0.2487D-01	0.5686D+01	0.1929D+01	0.2824D+01	0.1560D+05	
SFK822	-0.8363D+02	-0.2629D-01	0.6327D-01	0.2898D+01	0.1000D+01	0.7209D-01	0.1648D+02	0.5590D+01	0.8186D+01	0.4521D+05	
CSFMR822	-0.1160D+04	-0.3646D+00	0.8777D+00	0.4021D+02	0.1387D+02	0.1000D+01	0.2286D+03	0.7754D+02	0.1136D+03	0.6271D+06	
LOIIND61	-0.5075D+01	-0.1595D-02	0.3840D-02	0.1759D+00	0.6068D-01	0.4375D-02	0.1000D+01	0.3392D+00	0.4967D+00	0.2743D+04	
LOIAS	-0.1496D+02	-0.4702D-02	0.1132D-01	0.5185D+00	0.1789D+00	0.1290D-01	0.2948D+01	0.1000D+01	0.1464D+01	0.8087D+04	
MOP62	-0.1022D+02	-0.3211D-02	0.7729D-02	0.3541D+00	0.1222D+00	0.8807D-02	0.2013D+01	0.6829D+00	0.1000D+01	0.5522D+04	
PRMVACR1	-0.1850D-02	-0.5815D-06	0.1400D-05	0.6411D-04	0.2212D-04	0.1595D-05	0.3645D-03	0.1237D-03	0.1811D-03	0.1000D+01	
DUM78RAU	-0.4174D+02	-0.1312D-01	0.3158D-01	0.1447D+01	0.4991D+00	0.3598D-01	0.8226D+01	0.2790D+01	0.4086D+01	0.2257D+05	
SED78RAU	0.2576D+02	0.8096D-02	-0.1949D-01	-0.8927D+00	-0.3080D+00	-0.2220D-01	-0.5075D+01	-0.1722D+01	-0.2521D+01	-0.1392D+05	
CONSTA	0.1724D+02	0.5420D-02	-0.1305D-01	-0.5976D+00	-0.2062D+00	-0.1486D-01	-0.3398D+01	-0.1153D+01	-0.1688D+01	-0.9321D+04	
KMPARR1	-0.3767D+10	-0.1184D+07	0.2850D+07	0.1306D+09	0.4504D+08	0.3247D+07	0.7423D+09	0.2518D+09	0.3687D+09	0.2036D+13	
DICR1	-0.1419D+10	-0.4459D+06	0.1073D+07	0.4917D+08	0.1696D+08	0.1223D+07	0.2795D+09	0.9483D+08	0.1389D+09	0.7669D+12	
PGRPKM	-0.4337D+00	-0.1363D-03	0.3282D-03	0.1503D-01	0.5186D-02	0.3739D-03	0.8547D-01	0.2899D-01	0.4246D-01	0.2345D+03	
PDRQ	0.1410D+00	0.4430D-04	-0.1066D-03	-0.4885D-02	-0.1685D-02	-0.1215D-03	-0.2777D-01	-0.9421D-02	-0.1380D-01	-0.7619D+02	
ENTRNMDC	0.1256D+03	0.3947D-01	-0.9499D-01	-0.4351D+01	-0.1501D+01	-0.1082D+00	-0.2474D+02	-0.8392D+01	-0.1229D+02	-0.6787D+05	
PPAS	-0.1855D+00	-0.5831D-04	0.1404D-03	0.6430D-02	0.2218D-02	0.1599D-03	0.3656D-01	0.1240D-01	0.1816D-01	0.1003D+03	
SURPOL	-0.5052D+02	-0.1588D-01	0.3822D-01	0.1751D+01	0.6041D+00	0.4355D-01	0.9955D+01	0.3377D+01	0.4945D+01	0.2731D+05	
PERPA	0.4363D+01	0.1371D-02	-0.3301D-02	-0.1512D+00	-0.5217D-01	-0.3761D-02	-0.8597D+00	-0.2916D+00	-0.4270D+00	-0.2358D+04	
PRCHOM	0.1794D+00	0.5638D-04	-0.1357D-03	-0.6216D-02	-0.2145D-02	-0.1546D-03	-0.3534D-01	-0.1199D-01	-0.1756D-01	-0.9695D+02	
PRFEVM	-0.6510D-01	-0.2046D-04	0.4925D-04	0.2256D-02	0.7784D-03	0.5612D-04	0.1283D-01	0.4351D-02	0.6372D-02	0.3519D+02	
HEUHM	0.5649D+02	0.1776D-01	-0.4274D-01	-0.1958D+01	-0.6755D+00	-0.4869D-01	-0.1113D+02	-0.3776D+01	-0.5529D+01	-0.3054D+05	
PRMED	-0.6255D+02	-0.1966D-01	0.4732D-01	0.2168D+01	0.7479D+00	0.5392D-01	0.1233D+02	0.4181D+01	0.6123D+01	0.3381D+05	
PRALT	-0.2709D+02	-0.8514D-02	0.2049D-01	0.9388D+00	0.3239D+00	0.2335D-01	0.5338D+01	0.1811D+01	0.2651D+01	0.1464D+05	
PRMTRAR1	-0.1447D-03	-0.4547D-07	0.1095D-06	0.5014D-05	0.1730D-05	0.1247D-06	0.2851D-04	0.9670D-05	0.1416D-04	0.7820D-01	
PRMMAGR1	-0.8645D+00	-0.2717D-03	0.6541D-03	0.2996D-01	0.1034D-01	0.7452D-03	0.1703D+00	0.5778D-01	0.8462D-01	0.4673D+03	
DMSR	0.1522D+03	0.4784D-01	-0.1152D+00	-0.5275D+01	-0.1820D+01	-0.1312D+00	-0.2999D+02	-0.1017D+02	-0.1490D+02	-0.8228D+05	
WD	-0.6161D+02	-0.1937D-01	0.4661D-01	0.2135D+01	0.7367D+00	0.5311D-01	0.1214D+02	0.4118D+01	0.6031D+01	0.3330D+05	
SAT	-0.3681D+02	-0.1157D-01	0.2785D-01	0.1276D+01	0.4401D+00	0.3173D-01	0.7253D+01	0.2460D+01	0.3603D+01	0.1990D+05	
SHD	-0.4191D+02	-0.1317D-01	0.3171D-01	0.1453D+01	0.5011D+00	0.3613D-01	0.8259D+01	0.2801D+01	0.4102D+01	0.2266D+05	
constant	-0.6891D-01	-0.2166D-04	0.5214D-04	0.2388D-02	0.8240D-03	0.5940D-04	0.1358D-01	0.4606D-02	0.6745D-02	0.3725D+02	
=====											
X(1)	X(k)	DUM78RAU	SED78RAU	CONSTA	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL
=====											
DISCEIN	0.4027D-01	-0.6527D-01	-0.9749D-01	0.4463D-09	0.1185D-08	0.3876D+01	-0.1193D+02	-0.1339D-01	0.9062D+01	0.3328D-01	
LVCEI	0.5562D+00	-0.9014D+00	-0.1346D+01	0.6163D-08	0.1637D-07	0.5353D+02	-0.1647D+03	-0.1849D+00	0.1251D+03	0.4595D+00	
P08PC	0.2170D+01	-0.3518D+01	-0.5254D+01	0.2405D-07	0.6387D-07	0.2089D+03	-0.6428D+03	-0.7216D+00	0.4884D+03	0.1793D+01	
PTDEM	-0.1200D+00	0.1945D+00	0.2905D+00	-0.1330D-08	-0.3531D-08	-0.1155D+02	0.3554D+02	0.3989D-01	-0.2700D+02	-0.9915D-01	
NCRROUT04	-0.2337D+00	0.3787D+00	0.5657D+00	-0.2589D-08	-0.6876D-08	-0.2249D+02	0.6921D+02	0.7769D-01	-0.5258D+02	-0.1931D+00	
GRPOL	-0.9397D+00	0.1523D+01	0.2275D+01	-0.1041D-07	-0.2765D-07	-0.9044D+02	0.2783D+03	0.3124D+00	-0.2115D+03	-0.7765D+00	
STR813	0.2294D+02	-0.3718D+02	-0.5554D+02	0.2542D-06	0.6750D-06	0.2208D+04	-0.6794D+04	-0.7627D+01	0.5162D+04	0.1896D+02	
STRP	0.5702D+01	-0.9240D+01	-0.1380D+02	0.6318D-07	0.1678D-06	0.5487D+03	-0.1689D+04	-0.1896D+01	0.1283D+04	0.4711D+01	
STRCUQ	-0.1902D+02	0.3083D+02	0.4605D+02	-0.2108D-06	-0.5597D-06	-0.1831D+04	0.5633D+04	0.6324D+01	-0.4280D+04	-0.1572D+02	
GRVOY	-0.2079D+02	0.3369D+02	0.5032D+02	-0.2304D-06	-0.6117D-06	-0.2001D+04	0.6157D+04	0.6912D+01	-0.4678D+04	-0.1718D+02	
AUTPKRP	-0.2396D-01	0.3882D-01	0.5799D-01	-0.2655D-09	-0.7049D-09	-0.2306D+01	0.7095D+01	0.7965D-02	-0.5390D+01	-0.1979D-01	
GRMUMH	-0.7621D+02	0.1235D+03	0.1845D+03	-0.8445D-06	-0.2243D-05	-0.7335D+04	0.2257D+05	0.2534D+02	-0.1715D+05	-0.6297D+02	
TLK822	0.3166D+02	-0.5131D+02	-0.7665D+02	0.3509D-06	0.9317D-06	0.3047D+04	-0.9377D+04	-0.1053D+02	0.7125D+04	0.2616D+02	
RFK822	0.6912D+00	-0.1120D+01	-0.1673D+01	0.7659D-08	0.2034D-07	0.6652D+02	-0.2047D+03	-0.2298D+00	0.1555D+03	0.5711D+00	
SFK822	0.2003D+01	-0.3247D+01	-0.4850D+01	0.2220D-07	0.5895D-07	0.1928D+03	-0.5933D+03	-0.6661D+00	0.4508D+03	0.1655D+01	

CSFMR822	0.2779D+02	-0.4504D+02	-0.6728D+02	0.3079D-06	0.8177D-06	0.2675D+04	-0.8230D+04	-0.9240D+01	0.6253D+04	0.2296D+02
LOIIND61	0.1216D+00	-0.1970D+00	-0.2943D+00	0.1347D-08	0.3577D-08	0.1170D+02	-0.3600D+02	-0.4042D-01	0.2735D+02	0.1004D+00
LOIAS	0.3584D+00	-0.5808D+00	-0.8676D+00	0.3971D-08	0.1055D-07	0.3449D+02	-0.1061D+03	-0.1192D+00	0.8064D+02	0.2961D+00
MOP62	0.2447D+00	-0.3966D+00	-0.5925D+00	0.2712D-08	0.7201D-08	0.2355D+02	-0.7248D+02	-0.8137D-01	0.5507D+02	0.2022D+00
PRMVACR1	0.4432D-04	-0.7182D-04	-0.1073D-03	0.4911D-12	0.1304D-11	0.4265D-02	-0.1312D-01	-0.1473D-04	0.9972D-02	0.3662D-04
DUM78RAU	0.1000D+01	-0.1621D+01	-0.2421D+01	0.1108D-07	0.2943D-07	0.9624D+02	-0.2962D+03	-0.3325D+00	0.2250D+03	0.8263D+00
SED78RAU	-0.6170D+00	0.1000D+01	0.1494D+01	-0.6837D-08	-0.1816D-07	-0.5938D+02	0.1827D+03	0.2051D+00	-0.1388D+03	-0.5098D+00
CONSTA	-0.4131D+00	0.6695D+00	0.1000D+01	-0.4577D-08	-0.1215D-07	-0.3976D+02	0.1223D+03	0.1373D+00	-0.9295D+02	-0.3413D+00
KMPARR1	0.9024D+08	-0.1463D+09	-0.2185D+09	0.1000D+01	0.2655D+01	0.8685D+10	-0.2673D+11	-0.3000D+08	0.2031D+11	0.7457D+08
DICR1	0.3398D+08	-0.5508D+08	-0.8227D+08	0.3766D+00	0.1000D+01	0.3271D+10	-0.1006D+11	-0.1130D+08	0.7647D+10	0.2808D+08
PGRPKM	0.1039D-01	-0.1684D-01	-0.2515D-01	0.1151D-09	0.3057D-09	0.1000D+01	-0.3077D+01	-0.3455D-02	0.2338D+01	0.8585D-02
PDRQ	-0.3377D-02	0.5472D-02	0.8174D-02	-0.3742D-10	-0.9936D-10	-0.3250D+00	0.1000D+01	0.1123D-02	-0.7598D+00	-0.2790D-02
ENTRNMDC	-0.3008D+01	0.4875D+01	0.7281D+01	-0.3333D-07	-0.8850D-07	-0.2895D+03	0.8908D+03	0.1000D+01	-0.6768D+03	-0.2485D+01
PPAS	0.4444D-02	-0.7203D-02	-0.1076D-01	0.4925D-10	0.1308D-09	0.4277D+00	-0.1316D+01	-0.1478D-02	0.1000D+01	0.3672D-02
SURPOL	0.1210D+01	-0.1961D+01	-0.2930D+01	0.1341D-07	0.3561D-07	0.1165D+03	-0.3584D+03	-0.4024D+00	0.2723D+03	0.1000D+01
PERPA	-0.1045D+00	0.1694D+00	0.2530D+00	-0.1158D-08	-0.3075D-08	-0.1006D+02	0.3095D+02	0.3475D-01	-0.2352D+02	-0.8635D-01
PRCHOM	-0.4296D-02	0.6963D-02	0.1040D-01	-0.4761D-10	-0.1264D-09	-0.4135D+00	0.1272D+01	0.1428D-02	-0.9668D+00	-0.3550D-02
PRFEVM	0.1559D-02	-0.2527D-02	-0.3775D-02	0.1728D-10	0.4589D-10	0.1501D+00	-0.4619D+00	-0.5185D-03	0.3509D+00	0.1289D-02
HEUHM	-0.1353D+01	0.2193D+01	0.3276D+01	-0.1500D-07	-0.3982D-07	-0.1302D+03	0.4008D+03	0.4499D+00	-0.3045D+03	-0.1118D+01
PRMED	0.1498D+01	-0.2428D+01	-0.3627D+01	0.1660D-07	0.4409D-07	0.1442D+03	-0.4438D+03	-0.4982D+00	0.3372D+03	0.1238D+01
PRALT	0.6489D+00	-0.1052D+01	-0.1571D+01	0.7190D-08	0.1909D-07	0.6245D+02	-0.1922D+03	-0.2157D+00	0.1460D+03	0.5362D+00
PRMTRAR1	0.3466D-05	-0.5617D-05	-0.8390D-05	0.3840D-13	0.1020D-12	0.3335D-03	-0.1026D-02	-0.1152D-05	0.7798D-03	0.2864D-05
PRMMAGR1	0.2071D-01	-0.3356D-01	-0.5013D-01	0.2295D-09	0.6094D-09	0.1993D+01	-0.6133D+01	-0.6885D-02	0.4660D+01	0.1711D-01
DMSR	-0.3646D+01	0.5910D+01	0.8827D+01	-0.4041D-07	-0.1073D-06	-0.3509D+03	0.1080D+04	0.1212D+01	-0.8205D+03	-0.3013D+01
WD	0.1476D+01	-0.2392D+01	-0.3573D+01	0.1635D-07	0.4343D-07	0.1420D+03	-0.4371D+03	-0.4907D+00	0.3321D+03	0.1220D+01
SAT	0.8817D+00	-0.1429D+01	-0.2134D+01	0.9770D-08	0.2594D-07	0.8486D+02	-0.2611D+03	-0.2931D+00	0.1984D+03	0.7285D+00
SHD	0.1004D+01	-0.1627D+01	-0.2431D+01	0.1113D-07	0.2954D-07	0.9663D+02	-0.2973D+03	-0.3338D+00	0.2259D+03	0.8296D+00
constant	0.1651D-02	-0.2675D-02	-0.3996D-02	0.1829D-10	0.4857D-10	0.1589D+00	-0.4889D+00	-0.5488D-03	0.3714D+00	0.1364D-02
=====										
X(k)	PERPA	PRCHOM	PRFEVM	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	DMSR	WD
=====										
X(1)										
=====										
DISCEIN	-0.3853D+00	-0.9373D+01	0.2582D+02	-0.2976D-01	0.2688D-01	0.6206D-01	0.1162D+05	0.1945D+01	-0.1104D-01	0.2729D-01
LVCEI	-0.5322D+01	-0.1294D+03	0.3566D+03	-0.4110D+00	0.3712D+00	0.8571D+00	0.1605D+06	0.2686D+02	-0.1525D+00	0.3768D+00
P08PC	-0.2077D+02	-0.5052D+03	0.1392D+04	-0.1604D+01	0.1448D+01	0.3345D+01	0.6263D+06	0.1048D+03	-0.5952D+00	0.1471D+01
PTDEM	0.1148D+01	0.2793D+02	-0.7694D+02	0.8867D-01	-0.8008D-01	-0.1849D+00	-0.3462D+05	-0.5794D+01	0.3291D-01	-0.8130D-01
NCROUT04	0.2236D+01	0.5439D+02	-0.1498D+03	0.1727D+00	-0.1560D+00	-0.3601D+00	-0.6743D+05	-0.1128D+02	0.6409D-01	-0.1583D+00
GRPOL	0.8992D+01	0.2187D+03	-0.6026D+03	0.6944D+00	-0.6272D+00	-0.1448D+01	-0.2712D+06	-0.4538D+02	0.2577D+00	-0.6367D+00
STR813	-0.2195D+03	-0.5339D+04	0.1471D+05	-0.1695D+02	0.1531D+02	0.3535D+02	0.6620D+07	0.1108D+04	-0.6291D+01	0.1554D+02
STRP	-0.5456D+02	-0.1327D+04	0.3656D+04	-0.4213D+01	0.3805D+01	0.8787D+01	0.1645D+07	0.2753D+03	-0.1564D+01	0.3863D+01
STRCUQ	0.1820D+03	0.4427D+04	-0.1220D+05	0.1406D+02	-0.1269D+02	-0.2931D+02	-0.5488D+07	-0.9185D+03	0.5216D+01	-0.1289D+02
GRVOY	0.1989D+03	0.4838D+04	-0.1333D+05	0.1536D+02	-0.1387D+02	-0.3204D+02	-0.5998D+07	-0.1004D+04	0.5701D+01	-0.1408D+02
AUTPKRP	0.2292D+00	0.5576D+01	-0.1536D+02	0.1770D-01	-0.1599D-01	-0.3692D-01	-0.6912D+04	-0.1157D+01	0.6570D-02	-0.1623D-01
GRMUMH	0.7292D+03	0.1774D+05	-0.4887D+05	0.5632D+02	-0.5086D+02	-0.1175D+03	-0.2199D+08	-0.3680D+04	0.2090D+02	-0.5164D+02
TLK822	-0.3030D+03	-0.7369D+04	0.2030D+05	-0.2340D+02	0.2113D+02	0.4880D+02	0.9136D+07	0.1529D+04	-0.8683D+01	0.2145D+02
RPK822	-0.6614D+01	-0.1609D+03	0.4432D+03	-0.5108D+00	0.4613D+00	0.1065D+01	0.1994D+06	0.3338D+02	-0.1896D+00	0.4683D+00
SFK822	-0.1917D+02	-0.4663D+03	0.1285D+04	-0.1480D+01	0.1337D+01	0.3087D+01	0.5781D+06	0.9674D+02	-0.5494D+00	0.1357D+01
CSFMR822	-0.2659D+03	-0.6468D+04	0.1782D+05	-0.2054D+02	0.1855D+02	0.4283D+02	0.8019D+07	0.1342D+04	-0.7621D+01	0.1883D+02
LOIIND61	-0.1163D+01	-0.2830D+02	0.7795D+02	-0.8984D-01	0.8113D-01	0.1874D+00	0.3508D+05	0.5870D+01	-0.3334D-01	0.8237D-01
LOIAS	-0.3429D+01	-0.8341D+02	0.2298D+03	-0.2648D+00	0.2392D+00	0.5523D+00	0.1034D+06	0.1731D+02	-0.9829D-01	0.2428D+00
MOP62	-0.2342D+01	-0.5696D+02	0.1569D+03	-0.1809D+00	0.1633D+00	0.3772D+00	0.7062D+05	0.1182D+02	-0.6712D-01	0.1658D+00
PRMVACR1	-0.4240D-03	-0.1031D-01	0.2842D-01	-0.3275D-04	0.2958D-04	0.6830D-04	0.1279D+02	0.2140D-02	-0.1215D-04	0.3003D-04

DUM78RAU	-0.9569D+01	-0.2327D+03	0.6412D+03	-0.7390D+00	0.6674D+00	0.1541D+01	0.2886D+06	0.4829D+02	-0.2742D+00	0.6775D+00
SED78RAU	0.5904D+01	0.1436D+03	-0.3957D+03	0.4560D+00	-0.4118D+00	-0.9509D+00	-0.1780D+06	-0.2980D+02	0.1692D+00	-0.4181D+00
CONSTA	0.3953D+01	0.9614D+02	-0.2649D+03	0.3053D+00	-0.2757D+00	-0.6366D+00	-0.1192D+06	-0.1995D+02	0.1133D+00	-0.2799D+00
KMPARR1	-0.8635D+09	-0.2100D+11	0.5787D+11	-0.6669D+08	0.6023D+08	0.1391D+09	0.2604D+14	0.4358D+10	-0.2475D+08	0.6114D+08
DICR1	-0.3252D+09	-0.7910D+10	0.2179D+11	-0.2511D+08	0.2268D+08	0.5237D+08	0.9806D+13	0.1641D+10	-0.9320D+07	0.2303D+08
PGRPKM	-0.9942D-01	-0.2418D+01	0.6663D+01	-0.7678D-02	0.6934D-02	0.1601D-01	0.2998D+04	0.5017D+00	-0.2850D-02	0.7040D-02
PDRQ	0.3231D-01	0.7859D+00	-0.2165D+01	0.2495D-02	-0.2253D-02	-0.5204D-02	-0.9743D+03	-0.1630D+00	0.9260D-03	-0.2288D-02
ENTRNMDC	0.2878D+02	0.7000D+03	-0.1929D+04	0.2223D+01	-0.2007D+01	-0.4635D+01	-0.8679D+06	-0.1452D+03	0.8249D+00	-0.2038D+01
FPAS	-0.4252D-01	-0.1034D+01	0.2850D+01	-0.3284D-02	0.2966D-02	0.6849D-02	0.1282D+04	0.2146D+00	-0.1219D-02	0.3011D-02
SURPOL	-0.1158D+02	-0.2817D+03	0.7760D+03	-0.8944D+00	0.8077D+00	0.1865D+01	0.3492D+06	0.5844D+02	-0.3319D+00	0.8200D+00
PERPA	0.1000D+01	0.2432D+02	-0.6701D+02	0.7723D-01	-0.6975D-01	-0.1611D+00	-0.3016D+05	-0.5047D+01	0.2866D-01	-0.7081D-01
PRCHOM	0.4111D-01	0.1000D+01	-0.2755D+01	0.3175D-02	-0.2867D-02	-0.6621D-02	-0.1240D+04	-0.2075D+00	0.1178D-02	-0.2911D-02
PRFEVM	-0.1492D-01	-0.3630D+00	0.1000D+01	-0.1152D-02	0.1041D-02	0.2403D-02	0.4500D+03	0.7531D-01	-0.4277D-03	0.1057D-02
HEUHM	0.1295D+02	0.3150D+03	-0.8677D+03	0.1000D+01	-0.9031D+00	-0.2085D+01	-0.3905D+06	-0.6534D+02	0.3711D+00	-0.9169D+00
PRMED	-0.1434D+02	-0.3488D+03	0.9608D+03	-0.1107D+01	0.1000D+01	0.2309D+01	0.4324D+06	0.7236D+02	-0.4109D+00	0.1015D+01
PRALT	-0.6209D+01	-0.1510D+03	0.4161D+03	-0.4795D+00	0.4331D+00	0.1000D+01	0.1872D+06	0.3133D+02	-0.1780D+00	0.4397D+00
PRMTRAR1	-0.3316D-04	-0.8066D-03	0.2222D-02	-0.2561D-05	0.2313D-05	0.5341D-05	0.1000D+01	0.1673D-03	-0.9504D-06	0.2348D-05
PRMMAGR1	-0.1982D+00	-0.4820D+01	0.1328D+02	-0.1530D-01	0.1382D-01	0.3191D-01	0.5976D+04	0.1000D+01	-0.5679D-02	0.1403D-01
DMSR	0.3489D+02	0.8487D+03	-0.2338D+04	0.2695D+01	-0.2433D+01	-0.5619D+01	-0.1052D+07	-0.1761D+03	0.1000D+01	-0.2471D+01
WD	-0.1412D+02	-0.3435D+03	0.9464D+03	-0.1091D+01	0.9850D+00	0.2275D+01	0.4259D+06	0.7127D+02	-0.4048D+00	0.1000D+01
SAT	-0.8437D+01	-0.2052D+03	0.5654D+03	-0.6516D+00	0.5884D+00	0.1359D+01	0.2544D+06	0.4258D+02	-0.2418D+00	0.5974D+00
SHD	-0.9607D+01	-0.2337D+03	0.6438D+03	-0.7419D+00	0.6701D+00	0.1547D+01	0.2897D+06	0.4848D+02	-0.2753D+00	0.6803D+00
constant	-0.1580D-01	-0.3842D+00	0.1059D+01	-0.1220D-02	0.1102D-02	0.2544D-02	0.4763D+03	0.7971D-01	-0.4527D-03	0.1118D-02
=====										
	X(k)	SAT	SHD	constant						
X(l)	=====									
DISCEIN	0.4568D-01	0.4011D-01	0.2440D+02							
LVCEI	0.6308D+00	0.5539D+00	0.3369D+03							
P08PC	0.2462D+01	0.2162D+01	0.1315D+04							
PTDEM	-0.1361D+00	-0.1195D+00	-0.7269D+02							
NCROUT04	-0.2650D+00	-0.2328D+00	-0.1416D+03							
GRPOL	-0.1066D+01	-0.9360D+00	-0.5693D+03							
STR813	0.2602D+02	0.2285D+02	0.1390D+05							
STRP	0.6467D+01	0.5679D+01	0.3454D+04							
STRCUQ	-0.2157D+02	-0.1894D+02	-0.1152D+05							
GRVOY	-0.2358D+02	-0.2070D+02	-0.1259D+05							
AUTPKRP	-0.2717D-01	-0.2386D-01	-0.1451D+02							
GRMUMH	-0.8644D+02	-0.7591D+02	-0.4617D+05							
TLK822	0.3591D+02	0.3154D+02	0.1918D+05							
RFK822	0.7839D+00	0.6884D+00	0.4187D+03							
SPK822	0.2272D+01	0.1995D+01	0.1214D+04							
CSFMR822	0.3152D+02	0.2768D+02	0.1683D+05							
LOIIND61	0.1379D+00	0.1211D+00	0.7364D+02							
LOIAS	0.4065D+00	0.3570D+00	0.2171D+03							
MOP62	0.2776D+00	0.2438D+00	0.1483D+03							
PRMVACR1	0.5026D-04	0.4414D-04	0.2685D-01							
DUM78RAU	0.1134D+01	0.9960D+00	0.6058D+03							
SED78RAU	-0.6998D+00	-0.6146D+00	-0.3738D+03							
CONSTA	-0.4685D+00	-0.4114D+00	-0.2502D+03							
KMPARR1	0.1024D+09	0.8988D+08	0.5467D+11							
DICR1	0.3854D+08	0.3385D+08	0.2059D+11							

PGRPKM	0.1178D-01	0.1035D-01	0.6294D+01
PDRQ	-0.3830D-02	-0.3363D-02	-0.2045D+01
ENTRNMDC	-0.3411D+01	-0.2996D+01	-0.1822D+04
PPAS	0.5040D-02	0.4426D-02	0.2692D+01
SURPOL	0.1373D+01	0.1205D+01	0.7331D+03
PERPA	-0.1185D+00	-0.1041D+00	-0.6331D+02
PRCHOM	-0.4873D-02	-0.4279D-02	-0.2603D+01
PRFEVM	0.1769D-02	0.1553D-02	0.9447D+00
HEUHM	-0.1535D+01	-0.1348D+01	-0.8197D+03
PRMED	0.1699D+01	0.1492D+01	0.9077D+03
PRALT	0.7359D+00	0.6463D+00	0.3931D+03
PRMTRAR1	0.3931D-05	0.3452D-05	0.2099D-02
PRMMAGR1	0.2349D-01	0.2063D-01	0.1254D+02
DMSR	-0.4136D+01	-0.3632D+01	-0.2209D+04
WD	0.1674D+01	0.1470D+01	0.8941D+03
SAT	0.1000D+01	0.8782D+00	0.5341D+03
SHD	0.1139D+01	0.1000D+01	0.6082D+03
constant	0.1872D-02	0.1644D-02	0.1000D+01

Log-likelihood

```

- initial value :      -2482.4431
- final value   :      -2375.9805
- ratio test    :           212.9251

```

```

Pearson-r2      :           0.9568
Pearson-r2 bar  :           0.9477
Pseudo-(1)-r2   :           0.9670
Pseudo-(1)-r2 bar :          0.9600
Std-error of (w) :           0.4374

```

```

Number of observations   first-last obs.no.
- sample      :      313           1 -      313
- estimation   :      300          14 -      313

```

CPU TIME: 1.67 sec

Output file 4: NM_bc1au.txt

```

&CARD1
NOBS =      313,
NC    =       14,
NF    =      313,
NFP   =      313,
NOBEL =       12,
NM     =        0,
NSTEP =       500,
EPSI  = 1.0000000000000000E-007,
WGHT  = 1.0000000000000000
/
&CARD2
NB     =       38,
NRO    =       11,
NSL    =       20,
NGF    =        0,
MAXF   =        0,
NGV    =        1,
MAXV   =       18,
NLY    =        2,
NDM    =       -1,
NLE    =        0,
ND      =        0
/
&CARD3
NCOR   =        0,
NRES   =        0,

```



```

NPW      =      0,
NGUVW    =      0,
NPDQL    =      0,
NCOV     =      0,
NEY      =      0,
VARNAME = nm_bclau ,
N VARIANT =      30
/

```

Working space used : 32966 out of 500000

```

autocorrelation of orders:      1      3      4      5
      6      7      8      9     11     12
      13
rho initial values: 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000 0.000000000000000E+000 0.000000000000000E+000

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

group      1 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value: 1.000000000000000
upper limit for y 0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	NM	0.74600D+03	0.23939D+04	0.50730D+04	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCR0UT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
22	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
23	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
24	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	PPAS	0.10000D+00	0.15846D+00	0.26970D+00	0
27	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
28	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
29	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
30	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
31	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
32	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
33	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
34	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
35	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
36	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
37	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
38	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
39	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y)	y(sample)	E(y)
							SIGMA (y)		SIGMA (y)	
							GAMMA (y)		GAMMA (y)	
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	0.4056079D+03	0.4581333D+00	0.5034717D+03	0.8056	0.0760	0.0760	0.1476	0.1466
								0.0000		0.0000
								0.2353		0.4508
2 LVCEI	NL	0	-0.2113857D+03	0.2558333D+00	0.1409930D+03	-1.4993	-0.0221	-0.0221	-0.0769	-0.0764
								0.0000		0.0000
								-0.0685		-0.2349
3 P08PC	NL	0	-0.2118338D+03	0.5233333D+00	0.1474449D+03	-1.4367	-0.0453	-0.0453	-0.0771	-0.0766
								0.0000		0.0000
								-0.1404		-0.2354

4	PTDEM	NL	0	-0.1434993D+03	0.3933333D+00	0.1687350D+03	-0.8504	-0.0231	-0.0231 0.0000 -0.0715	-0.0522	-0.0519 0.0000 -0.1595
5	NCROUT04	NL	0	-0.5966112D+03	0.3000000D-01	0.2174603D+03	-2.7435	-0.0073	-0.0073 0.0000 -0.0227	-0.1628	-0.1618 0.0000 -0.4973
6	GRPOL	NL	0	-0.1373533D+03	0.1055554D-01	0.1441120D+03	-0.9531	-0.0006	-0.0006 0.0000 -0.0018	0.0000	0.0000 0.0000 0.0000
7	STR813	NL	0	0.1109675D+02	0.4733333D+00	0.8536878D+01	1.2999	0.0021	0.0021 0.0000 0.0067	0.0044	0.0043 0.0000 0.0134
8	STRP	NL	0	0.3268131D+02	0.1266667D+00	0.1588377D+02	2.0575	0.0017	0.0017 0.0000 0.0052	0.0079	0.0079 0.0000 0.0242
9	STRCUQ	NL	0	-0.2335680D+01	0.1300000D+01	0.4218843D+01	-0.5536	-0.0012	-0.0012 0.0000 -0.0038	-0.0011	-0.0011 0.0000 -0.0032
10	GRVOY	NL	0	0.1766598D+01	0.7900000D+00	0.4882652D+01	0.3618	0.0006	0.0006 0.0000 0.0018	0.0000	0.0000 0.0000 0.0000
11	AUTPKRP	NL	0	0.6241650D+03	0.3251368D+00	0.1104899D+04	0.5649	0.0830	0.0830 0.0000 0.2570	0.1167	0.1159 0.0000 0.3564
12	GRMUMH	NL	0	-0.1275800D+02	0.1716667D+00	0.1133829D+02	-1.1252	-0.0009	-0.0009 0.0000 -0.0028	0.0000	0.0000 0.0000 0.0000
13	TLK822	NL	0	-0.1586282D+01	0.1928373D+03	0.2748152D+00	-5.7722	-0.1251	-0.1251 0.0000 -0.3873	-0.1088	-0.1081 0.0000 -0.3323
14	RFK822	NL	0	0.2158956D+02	0.7708521D+00	0.5081873D+02	0.4248	0.0068	0.0068 0.0000 0.0211	0.0059	0.0059 0.0000 0.0182
15	SFK822	NL	0	-0.2257952D+01	0.2509268D+01	0.1086896D+02	-0.2077	-0.0023	-0.0023 0.0000 -0.0072	-0.0013	-0.0013 0.0000 -0.0041
16	CSFMR822	NL	0	-0.6073432D+01	0.2353299D+02	0.1454490D+01	-4.1756	-0.0584	-0.0585 0.0000 -0.1810	-0.0442	-0.0439 0.0000 -0.1351
17	LOIIND61	NL	0	0.4543905D+03	0.8600000D+00	0.1404331D+03	3.2356	0.1598	0.1598 0.0000 0.4948	0.1653	0.1643 0.0000 0.5050
18	LOIAS	NL	0	0.6995402D+03	0.1933333D+00	0.1537736D+03	4.5492	0.0553	0.0553 0.0000 0.1712	0.2545	0.2529 0.0000 0.7775
19	MOP62	NL	0	0.1833425D+03	0.8200000D+00	0.1475305D+03	1.2427	0.0615	0.0615 0.0000 0.1904	0.0667	0.0663 0.0000 0.2038
20	PRMVACR1	NL	0	0.4526423D+07	0.4349227D-04	0.8829502D+06	5.1265	0.0805	0.0805 0.0000 0.2493	0.0811	0.0806 0.0000 0.2478
21	KMPARR1	EL	1	0.1199901D-05	0.2620907D+10	0.3523972D-06	3.4050	1.2859	1.2862 0.0000 3.9821	1.3448	1.3365 0.0001 4.1087
22	DICR1	EL	1	0.4108726D-06	0.6151215D+08	0.2324303D-05	0.1768	0.0103	0.0103 0.0000 0.0320	0.0159	0.0158 0.0000 0.0484
23	PGRPKM	EL	1	-0.1095708D+06	0.1602677D-01	0.3337616D+05	-3.2829	-0.7180	-0.7182 0.0000 -2.2236	-1.0362	-1.0298 0.0000 -3.1659
24	PDRQ	EL	1	-0.6148801D+04	0.9268908D-01	0.8383610D+04	-0.7334	-0.2330	-0.2331 0.0000 -0.7217	-0.3355	-0.3335 0.0000 -1.0252
25	ENTRNMDC	EL	1	-0.2996825D+02	0.6295400D+02	0.1089740D+02	-2.7500	-0.7714	-0.7716 0.0000 -2.3889	-0.8792	-0.8738 0.0000 -2.6862
26	PPAS	EL	1	0.1114678D+05	0.1609208D+00	0.7273468D+04	1.5325	0.7335	0.7336 0.0000 2.2713	1.0561	1.0496 0.0001 3.2267
27	SURPOL	EL	1	-0.5107634D+02	0.8257199D+01	0.3809223D+02	-1.3409	-0.1725	-0.1725 0.0000 -0.5340	-0.1431	-0.1422 0.0000 -0.4372
28	PERPA	EL	1	0.8131587D+03	0.1297782D+01	0.6130414D+03	1.3264	0.4315	0.4316 0.0000 1.3362	0.4298	0.4271 0.0000 1.3131
29	PRCHOM	EL	1	0.9155962D+04	0.3883502D-01	0.3696401D+04	2.4770	0.1454	0.1454 0.0000 0.4502	0.1908	0.1897 0.0000 0.5831
30	PRFEVM	EL	1	-0.7907052D+05	0.1139801D-01	0.5125615D+05	-1.5427	-0.3685	-0.3686 0.0000 -1.1412	-0.3009	-0.2990 0.0000 -0.9193
31	HEUHM	EL	1	-0.1314357D+03	0.4031700D+02	0.3858532D+02	-3.4064	-2.1668	-2.1672 -0.0001 -6.7098	-1.8106	-1.7994 -0.0001 -5.5318
32	PRMED	EL	1	0.1557846D+03	0.3003970D+01	0.8916668D+02	1.7471	0.1914	0.1914 0.0000 0.5926	0.2098	0.2085 0.0000 0.6409
33	PRALT	EL	1	0.4508346D+03	0.7172662D+00	0.3324854D+03	1.3560	0.1322	0.1322 0.0000 0.4095	0.1263	0.1255 0.0000 0.3858
34	PRMTRAR1	EL	1	0.5611582D+08	0.5226830D-04	0.1352343D+08	4.1495	1.1993	1.1996 0.0000 3.7139	0.8733	0.8679 0.0000 2.6680
35	PRMMAGR1	EL	1	-0.1806849D+04	0.1441229D+00	0.2722699D+04	-0.6636	-0.1065	-0.1065 0.0000 -0.3297	-0.1000	-0.0994 0.0000 -0.3055
36	WD	EL	1	-0.3078855D+02	0.2086000D+02	0.3220586D+02	-0.9560	-0.2626	-0.2627 0.0000 -0.8132	-0.2352	-0.2338 0.0000 -0.7186
37	SAT	EL	1	0.7853120D+02	0.4346667D+01	0.5176413D+02	1.5171	0.1396	0.1396	0.1238	0.1230

								0.0000		0.0000
								0.4322		0.3782
38 SHD	EL	1	-0.7137602D+02	0.5226667D+01	0.3812074D+02	-1.8724	-0.1525	-0.1526	-0.1320	-0.1312
								0.0000		0.0000
								-0.4724		-0.4033
39 constant	NL	0	0.5594424D+08	0.1000000D+01	0.1353126D+08	4.1344	22875.3716	22879.7078	20351.9933	20226.0068
								0.8573		0.9698
								70837.8270		62180.0262

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.4056079D+03	0.4056077D+03	0.1879961D-02	-0.1484465D-03
2 LVCEI	-0.2113857D+03	-0.2113856D+03	-0.9797564D-03	0.7736407D-04
3 P08PC	-0.2118338D+03	-0.2118337D+03	-0.9818331D-03	0.7752805D-04
4 PTDEM	-0.1434993D+03	-0.1434992D+03	-0.6651081D-03	0.5251863D-04
5 NCR0UT04	-0.5966112D+03	-0.5966109D+03	-0.2765247D-02	0.2183509D-03
6 GRPOL	-0.1373533D+03	-0.1373533D+03	-0.6366221D-03	0.5026930D-04
7 STR813	0.1109675D+02	0.1109675D+02	0.5143258D-04	-0.4061248D-05
8 STRP	0.3268131D+02	0.3268129D+02	0.1514753D-03	-0.1196088D-04
9 STRCUQ	-0.2335680D+01	-0.2335679D+01	-0.1082569D-04	0.8548245D-06
10 GRVOY	0.1766598D+01	0.1766597D+01	0.8188045D-05	-0.6465489D-06
11 AUTPKRP	0.6241650D+03	0.6241647D+03	0.2892956D-02	-0.2284352D-03
12 GRMUMH	-0.1275800D+02	-0.1275799D+02	-0.5913234D-04	0.4669241D-05
13 TLK822	-0.1586282D+01	-0.1586281D+01	-0.7352293D-05	0.5805558D-06
14 RFK822	0.2158956D+02	0.2158954D+02	0.1000659D-03	-0.7901460D-05
15 SFK822	-0.2257952D+01	-0.2257951D+01	-0.1046543D-04	0.8263772D-06
16 CSFMR822	-0.6073432D+01	-0.6073428D+01	-0.2814988D-04	0.2222787D-05
17 LOIIND61	0.4543905D+03	0.4543902D+03	0.2106065D-02	-0.1663002D-03
18 LOIAS	0.6995402D+03	0.6995398D+03	0.3242314D-02	-0.2560214D-03
19 MOP62	0.1833425D+03	0.1833424D+03	0.8497781D-03	-0.6710065D-04
20 PRMVACR1	0.4526423D+07	0.4526420D+07	0.2097962D+02	-0.1656604D+01
21 KMPARR1	0.1199901D-05	0.1199901D-05	0.5561449D-11	-0.4391462D-12
22 DICR1	0.4108726D-06	0.4108724D-06	0.1904363D-11	-0.1503733D-12
23 PGRPKM	-0.1095708D+06	-0.1095708D+06	-0.5078523D+00	0.4010132D-01
24 PDRQ	-0.6148801D+04	-0.6148798D+04	-0.2849922D-01	0.2250371D-02
25 ENTRNMD	-0.2996825D+02	-0.2996824D+02	-0.1389005D-03	0.1096794D-04
26 PPAS	0.1114678D+05	0.1114677D+05	0.5166446D-01	-0.4079557D-02
27 SURPOL	-0.5107634D+02	-0.5107631D+02	-0.2367349D-03	0.1869319D-04
28 PERPA	0.8131587D+03	0.8131582D+03	0.3768927D-02	-0.2976041D-03
29 PRCHOM	0.9155962D+04	0.9155957D+04	0.4243717D-01	-0.3350947D-02
30 PRFEVM	-0.7907052D+05	-0.7907047D+05	-0.3664857D+00	0.2893865D-01
31 HEUHM	-0.1314357D+03	-0.1314357D+03	-0.6091944D-03	0.4810354D-04
32 PRMED	0.1557846D+03	0.1557845D+03	0.7220493D-03	-0.5701486D-04
33 PRALT	0.4508346D+03	0.4508343D+03	0.2089583D-02	-0.1649988D-03
34 PRMTRAR1	0.5611582D+08	0.5611579D+08	0.2600925D+03	-0.2053757D+02
35 PRMMAGR1	-0.1806849D+04	-0.1806848D+04	-0.8374603D-02	0.6612800D-03
36 WD	-0.3078855D+02	-0.3078853D+02	-0.1427025D-03	0.1126816D-04
37 SAT	0.7853120D+02	0.7853116D+02	0.3639860D-03	-0.2874126D-04
38 SHD	-0.7137602D+02	-0.7137598D+02	-0.3308223D-03	0.2612257D-04
39 constant	0.5594424D+08	0.5594421D+08	0.2592972D+03	-0.2047477D+02

MRS between two moments (E(y), SIGMA(y), GAMMA(y))

at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2158D+06	-0.2732D+07
SIGMA(y)	0.4635D-05	0.1000D+01	-0.1266D+02
GAMMA(y)	-0.3660D-06	-0.7896D-01	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2669D+05	0.3230D+00
SIGMA(y)	0.3747D-04	0.1000D+01	0.1210D-04
GAMMA(y)	0.3096D+01	0.8263D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	-0.5212D+00	-0.5223D+00	-0.3538D+00	-0.1471D+01	-0.3386D+00	0.2736D-01	0.8057D-01	-0.5758D-02	0.4355D-02
LVCEI		-0.1919D+01	0.1000D+01	0.1002D+01	0.6789D+00	0.2822D+01	0.6498D+00	-0.5250D-01	-0.1546D+00	0.1105D-01	-0.8357D-02
P08PC		-0.1915D+01	0.9979D+00	0.1000D+01	0.6774D+00	0.2816D+01	0.6484D+00	-0.5238D-01	-0.1543D+00	0.1103D-01	-0.8340D-02
PTDEM		-0.2827D+01	0.1473D+01	0.1476D+01	0.1000D+01	0.4158D+01	0.9572D+00	-0.7733D-01	-0.2277D+00	0.1628D-01	-0.1231D-01
NCROUT04		-0.6799D+00	0.3543D+00	0.3551D+00	0.2405D+00	0.1000D+01	0.2302D+00	-0.1860D-01	-0.5478D-01	0.3915D-02	-0.2961D-02
GRPOL		-0.2953D+01	0.1539D+01	0.1542D+01	0.1045D+01	0.4344D+01	0.1000D+01	-0.8079D-01	-0.2379D+00	0.1700D-01	-0.1286D-01
STR813		0.3655D+02	-0.1905D+02	-0.1909D+02	-0.1293D+02	-0.5376D+02	-0.1238D+02	0.1000D+01	0.2945D+01	-0.2105D+00	0.1592D+00
STRP		0.1241D+02	-0.6468D+01	-0.6482D+01	-0.4391D+01	-0.1826D+02	-0.4203D+01	0.3395D+00	0.1000D+01	-0.7147D-01	0.5406D-01
STRCUQ		-0.1737D+03	0.9050D+02	0.9069D+02	0.6144D+02	0.2554D+03	0.5881D+02	-0.4751D+01	-0.1399D+02	0.1000D+01	-0.7564D+00
GRVOY		0.2296D+03	-0.1197D+03	-0.1199D+03	-0.8123D+02	-0.3377D+03	-0.7775D+02	0.6281D+01	0.1850D+02	-0.1322D+01	0.1000D+01
AUTPKRP		0.6498D+00	-0.3387D+00	-0.3394D+00	-0.2299D+00	-0.9559D+00	-0.2201D+00	0.1778D-01	0.5236D-01	-0.3742D-02	0.2830D-02
GRMUMH		-0.3179D+02	0.1657D+02	0.1660D+02	0.1125D+02	0.4676D+02	0.1077D+02	-0.8698D+00	-0.2562D+01	0.1831D+00	-0.1385D+00
TLK822		-0.2557D+03	0.1333D+03	0.1335D+03	0.9046D+02	0.3761D+03	0.8659D+02	-0.6995D+01	-0.2060D+02	0.1472D+01	-0.1114D+01
RFK822		0.1879D+02	-0.9791D+01	-0.9812D+01	-0.6647D+01	-0.2763D+02	-0.6362D+01	0.5140D+00	0.1514D+01	-0.1082D+00	0.8183D-01
SFK822		-0.1796D+03	0.9362D+02	0.9382D+02	0.6355D+02	0.2642D+03	0.6083D+02	-0.4915D+01	-0.1447D+02	0.1034D+01	-0.7824D+00
CSFMR822		-0.6678D+02	0.3480D+02	0.3488D+02	0.2363D+02	0.9823D+02	0.2262D+02	-0.1827D+01	-0.5381D+01	0.3846D+00	-0.2909D+00
LOIIND61		0.8926D+00	-0.4652D+00	-0.4662D+00	-0.3158D+00	-0.1313D+01	-0.3023D+00	0.2442D-01	0.7192D-01	-0.5140D-02	0.3888D-02
LOIAS		0.5798D+00	-0.3022D+00	-0.3028D+00	-0.2051D+00	-0.8529D+00	-0.1963D+00	0.1586D-01	0.4672D-01	-0.3339D-02	0.2525D-02
MOP62		0.2212D+01	-0.1153D+01	-0.1155D+01	-0.7827D+00	-0.3254D+01	-0.7492D+00	0.6052D-01	0.1783D+00	-0.1274D-01	0.9636D-02
PRMVACR1		0.8961D-04	-0.4670D-04	-0.4680D-04	-0.3170D-04	-0.1318D-03	-0.3034D-04	0.2452D-05	0.7220D-05	-0.5160D-06	0.3903D-06
KMPARR1		0.3380D+09	-0.1762D+09	-0.1765D+09	-0.1196D+09	-0.4972D+09	-0.1145D+09	0.9248D+07	0.2724D+08	-0.1947D+07	0.1472D+07
DICR1		0.9872D+09	-0.5145D+09	-0.5156D+09	-0.3493D+09	-0.1452D+10	-0.3343D+09	0.2701D+08	0.7954D+08	-0.5685D+07	0.4300D+07
PGRPKM		-0.3702D-02	0.1929D-02	0.1933D-02	0.1310D-02	0.5445D-02	0.1254D-02	-0.1013D-03	-0.2983D-03	0.2132D-04	-0.1612D-04
PDRQ		-0.6597D-01	0.3438D-01	0.3445D-01	0.2334D-01	0.9703D-01	0.2234D-01	-0.1805D-02	-0.5315D-02	0.3799D-03	-0.2873D-03
ENTRNMDC		-0.1353D+02	0.7054D+01	0.7069D+01	0.4788D+01	0.1991D+02	0.4583D+01	-0.3703D+00	-0.1091D+01	0.7794D-01	-0.5895D-01
FPAS		0.3639D-01	-0.1896D-01	-0.1900D-01	-0.1287D-01	-0.5352D-01	-0.1232D-01	0.9955D-03	0.2932D-02	-0.2095D-03	0.1585D-03
SURPOL		-0.7941D+01	0.4139D+01	0.4147D+01	0.2810D+01	0.1168D+02	0.2689D+01	-0.2173D+00	-0.6399D+00	0.4573D-01	-0.3459D-01
PERPA		0.4988D+00	-0.2600D+00	-0.2605D+00	-0.1765D+00	-0.7337D+00	-0.1689D+00	0.1365D-01	0.4019D-01	-0.2872D-02	0.2173D-02
PRCHOM		0.4430D-01	-0.2309D-01	-0.2314D-01	-0.1567D-01	-0.6516D-01	-0.1500D-01	0.1212D-02	0.3569D-02	-0.2551D-03	0.1929D-03
PRFEVM		-0.5130D-02	0.2673D-02	0.2679D-02	0.1815D-02	0.7545D-02	0.1737D-02	-0.1403D-03	-0.4133D-03	0.2954D-04	-0.2234D-04
HEUHM		-0.3086D+01	0.1608D+01	0.1612D+01	0.1092D+01	0.4539D+01	0.1045D+01	-0.8443D-01	-0.2486D+00	0.1777D-01	-0.1344D-01
PRMED		0.2604D+01	-0.1357D+01	-0.1360D+01	-0.9211D+00	-0.3830D+01	-0.8817D+00	0.7123D-01	0.2098D+00	-0.1499D-01	0.1134D-01
PRALT		0.8997D+00	-0.4689D+00	-0.4699D+00	-0.3183D+00	-0.1323D+01	-0.3047D+00	0.2461D-01	0.7249D-01	-0.5181D-02	0.3919D-02
PRMTRAR1		0.7228D-05	-0.3767D-05	-0.3775D-05	-0.2557D-05	-0.1063D-04	-0.2448D-05	0.1977D-06	0.5824D-06	-0.4162D-07	0.3148D-07

PRMMAGR1	-0.2245D+00	0.1170D+00	0.1172D+00	0.7942D-01	0.3302D+00	0.7602D-01	-0.6141D-02	-0.1809D-01	0.1293D-02	-0.9777D-03
WD	-0.1317D+02	0.6866D+01	0.6880D+01	0.4661D+01	0.1938D+02	0.4461D+01	-0.3604D+00	-0.1061D+01	0.7586D-01	-0.5738D-01
SAT	0.5165D+01	-0.2692D+01	-0.2697D+01	-0.1827D+01	-0.7597D+01	-0.1749D+01	0.1413D+00	0.4162D+00	-0.2974D-01	0.2250D-01
SHD	-0.5683D+01	0.2962D+01	0.2968D+01	0.2010D+01	0.8359D+01	0.1924D+01	-0.1555D+00	-0.4579D+00	0.3272D-01	-0.2475D-01
constant	0.7250D-05	-0.3779D-05	-0.3787D-05	-0.2565D-05	-0.1066D-04	-0.2455D-05	0.1984D-06	0.5842D-06	-0.4175D-07	0.3158D-07
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
DISCEIN	0.1539D+01	-0.3145D-01	-0.3911D-02	0.5323D-01	-0.5567D-02	-0.1497D-01	0.1120D+01	0.1725D+01	0.4520D+00	0.1116D+05
LVCEI	-0.2953D+01	0.6035D-01	0.7504D-02	-0.1021D+00	0.1068D-01	0.2873D-01	-0.2150D+01	-0.3309D+01	-0.8673D+00	-0.2141D+05
P08PC	-0.2946D+01	0.6023D-01	0.7488D-02	-0.1019D+00	0.1066D-01	0.2867D-01	-0.2145D+01	-0.3302D+01	-0.8655D+00	-0.2137D+05
PTDEM	-0.4350D+01	0.8891D-01	0.1105D-01	-0.1505D+00	0.1573D-01	0.4232D-01	-0.3166D+01	-0.4875D+01	-0.1278D+01	-0.3154D+05
NCROUT04	-0.1046D+01	0.2138D-01	0.2659D-02	-0.3619D-01	0.3785D-02	0.1018D-01	-0.7616D+00	-0.1173D+01	-0.3073D+00	-0.7587D+04
GRPOL	-0.4544D+01	0.9288D-01	0.1155D-01	-0.1572D+00	0.1644D-01	0.4422D-01	-0.3308D+01	-0.5093D+01	-0.1335D+01	-0.3295D+05
STR813	0.5625D+02	-0.1150D+01	-0.1430D+00	0.1946D+01	-0.2035D+00	-0.5473D+00	0.4095D+02	0.6304D+02	0.1652D+02	0.4079D+06
STRP	0.1910D+02	-0.3904D+00	-0.4854D-01	0.6606D+00	-0.6909D-01	-0.1858D+00	0.1390D+02	0.2140D+02	0.5610D+01	0.1385D+06
STRCUQ	-0.2672D+03	0.5462D+01	0.6792D+00	-0.9243D+01	0.9667D+00	0.2600D+01	-0.1945D+03	-0.2995D+03	-0.7850D+02	-0.1938D+07
GRVOY	0.3533D+03	-0.7222D+01	-0.8979D+00	0.1222D+02	-0.1278D+01	-0.3438D+01	0.2572D+03	0.3960D+03	0.1038D+03	0.2562D+07
AUTPKRP	0.1000D+01	-0.2044D-01	-0.2541D-02	0.3459D-01	-0.3618D-02	-0.9730D-02	0.7280D+00	0.1121D+01	0.2937D+00	0.7252D+04
GRMUMH	-0.4892D+02	0.1000D+01	0.1243D+00	-0.1692D+01	0.1770D+00	0.4760D+00	-0.3562D+02	-0.5483D+02	-0.1437D+02	-0.3548D+06
TLK822	-0.3935D+03	0.8043D+01	0.1000D+01	-0.1361D+02	0.1423D+01	0.3829D+01	-0.2865D+03	-0.4410D+03	-0.1156D+03	-0.2853D+07
RFK822	0.2891D+02	-0.5909D+00	-0.7347D-01	0.1000D+01	-0.1046D+00	-0.2813D+00	0.2105D+02	0.3240D+02	0.8492D+01	0.2097D+06
SFK822	-0.2764D+03	0.5650D+01	0.7025D+00	-0.9562D+01	0.1000D+01	0.2690D+01	-0.2012D+03	-0.3098D+03	-0.8120D+02	-0.2005D+07
CSFMR822	-0.1028D+03	0.2101D+01	0.2612D+00	-0.3555D+01	0.3718D+00	0.1000D+01	-0.7482D+02	-0.1152D+03	-0.3019D+02	-0.7453D+06
LOIIND61	0.1374D+01	-0.2808D-01	-0.3491D-02	0.4751D-01	-0.4969D-02	-0.1337D-01	0.1000D+01	0.1540D+01	0.4035D+00	0.9962D+04
LOIAS	0.8923D+00	-0.1824D-01	-0.2268D-02	0.3086D-01	-0.3228D-02	-0.8682D-02	0.6496D+00	0.1000D+01	0.2621D+00	0.6471D+04
MOP62	0.3404D+01	-0.6959D-01	-0.8652D-02	0.1178D+00	-0.1232D-01	-0.3313D-01	0.2478D+01	0.3815D+01	0.1000D+01	0.2469D+05
PRMVACR1	0.1379D-03	-0.2819D-05	-0.3504D-06	0.4770D-05	-0.4988D-06	-0.1342D-05	0.1004D-03	0.1545D-03	0.4050D-04	0.1000D+01
KMPARR1	0.5202D+09	-0.1063D+08	-0.1322D+07	0.1799D+08	-0.1882D+07	-0.5062D+07	0.3787D+09	0.5830D+09	0.1528D+09	0.3772D+13
DICR1	0.1519D+10	-0.3105D+08	-0.3861D+07	0.5255D+08	-0.5496D+07	-0.1478D+08	0.1106D+10	0.1703D+10	0.4462D+09	0.1102D+14
PGRPKM	-0.5696D-02	0.1164D-03	0.1448D-04	-0.1970D-03	0.2061D-04	0.5543D-04	-0.4147D-02	-0.6384D-02	-0.1673D-02	-0.4131D+02
PDRQ	-0.1015D+00	0.2075D-02	0.2580D-03	-0.3511D-02	0.3672D-03	0.9877D-03	-0.7390D-01	-0.1138D+00	-0.2982D-01	-0.7361D+03
ENTRNMDC	-0.2083D+02	0.4257D+00	0.5293D-01	-0.7204D+00	0.7534D-01	0.2027D+00	-0.1516D+02	-0.2334D+02	-0.6118D+01	-0.1510D+06
PPAS	0.5600D-01	-0.1145D-02	-0.1423D-03	0.1937D-02	-0.2026D-03	-0.5449D-03	0.4076D-01	0.6276D-01	0.1645D-01	0.4061D+03
SURPOL	-0.1222D+02	0.2498D+00	0.3106D-01	-0.4227D+00	0.4421D-01	0.1189D+00	-0.8896D+01	-0.1370D+02	-0.3590D+01	-0.8862D+05
PERPA	0.7676D+00	-0.1569D-01	-0.1951D-02	0.2655D-01	-0.2777D-02	-0.7469D-02	0.5588D+00	0.8603D+00	0.2255D+00	0.5566D+04
PRCHOM	0.6817D-01	-0.1393D-02	-0.1733D-03	0.2358D-02	-0.2466D-03	-0.6633D-03	0.4963D-01	0.7640D-01	0.2002D-01	0.4944D+03
PRFEVM	-0.7894D-02	0.1613D-03	0.2006D-04	-0.2730D-03	0.2856D-04	0.7681D-04	-0.5747D-02	-0.8847D-02	-0.2319D-02	-0.5725D+02
HEUHM	-0.4749D+01	0.9707D-01	0.1207D-01	-0.1643D+00	0.1718D-01	0.4621D-01	-0.3457D+01	-0.5322D+01	-0.1395D+01	-0.3444D+05
PRMED	0.4007D+01	-0.8190D-01	-0.1018D-01	0.1386D+00	-0.1449D-01	-0.3899D-01	0.2917D+01	0.4490D+01	0.1177D+01	0.2906D+05
PRALT	0.1384D+01	-0.2830D-01	-0.3519D-02	0.4789D-01	-0.5008D-02	-0.1347D-01	0.1008D+01	0.1552D+01	0.4067D+00	0.1004D+05
PRMTRAR1	0.1112D-04	-0.2274D-06	-0.2827D-07	0.3847D-06	-0.4024D-07	-0.1082D-06	0.8097D-05	0.1247D-04	0.3267D-05	0.8066D-01
PRMMAGR1	-0.3454D+00	0.7061D-02	0.8779D-03	-0.1195D-01	0.1250D-02	0.3361D-02	-0.2515D+00	-0.3872D+00	-0.1015D+00	-0.2505D+04
WD	-0.2027D+02	0.4144D+00	0.5152D-01	-0.7012D+00	0.7334D-01	0.1973D+00	-0.1476D+02	-0.2272D+02	-0.5955D+01	-0.1470D+06
SAT	0.7948D+01	-0.1625D+00	-0.2020D-01	0.2749D+00	-0.2875D-01	-0.7734D-01	0.5786D+01	0.8908D+01	0.2335D+01	0.5764D+05
SHD	-0.8745D+01	0.1787D+00	0.2222D-01	-0.3025D+00	0.3163D-01	0.8509D-01	-0.6366D+01	-0.9801D+01	-0.2569D+01	-0.6342D+05
constant	0.1116D-04	-0.2280D-06	-0.2835D-07	0.3859D-06	-0.4036D-07	-0.1086D-06	0.8122D-05	0.1250D-04	0.3277D-05	0.8091D-01
X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
DISCEIN	0.2958D-08	0.1013D-08	-0.2701D+03	-0.1516D+02	-0.7388D-01	0.2748D+02	-0.1259D+00	0.2005D+01	0.2257D+02	-0.1949D+03
LVCEI	-0.5676D-08	-0.1944D-08	0.5183D+03	0.2909D+02	0.1418D+00	-0.5273D+02	0.2416D+00	-0.3847D+01	-0.4331D+02	0.3741D+03

P08PC	-0.5664D-08	-0.1940D-08	0.5172D+03	0.2903D+02	0.1415D+00	-0.5262D+02	0.2411D+00	-0.3839D+01	-0.4322D+02	0.3733D+03
PTDEM	-0.8362D-08	-0.2863D-08	0.7636D+03	0.4285D+02	0.2088D+00	-0.7768D+02	0.3559D+00	-0.5667D+01	-0.6380D+02	0.5510D+03
NCROUT04	-0.2011D-08	-0.6887D-09	0.1837D+03	0.1031D+02	0.5023D-01	-0.1868D+02	0.8561D-01	-0.1363D+01	-0.1535D+02	0.1325D+03
GRPOL	-0.8736D-08	-0.2991D-08	0.7977D+03	0.4477D+02	0.2182D+00	-0.8115D+02	0.3719D+00	-0.5920D+01	-0.6666D+02	0.5757D+03
STR813	0.1081D-06	0.3703D-07	-0.9874D+04	-0.5541D+03	-0.2701D+01	0.1005D+04	-0.4603D+01	0.7328D+02	0.8251D+03	-0.7126D+04
STRP	0.3672D-07	0.1257D-07	-0.3353D+04	-0.1881D+03	-0.9170D+00	0.3411D+03	-0.1563D+01	0.2488D+02	0.2802D+03	-0.2419D+04
STRCUQ	-0.5137D-06	-0.1759D-06	0.4691D+05	0.2633D+04	0.1283D+02	-0.4772D+04	0.2187D+02	-0.3481D+03	-0.3920D+04	0.3385D+05
GRVOY	0.6792D-06	0.2326D-06	-0.6202D+05	-0.3481D+04	-0.1696D+02	0.6310D+04	-0.2891D+02	0.4603D+03	0.5183D+04	-0.4476D+05
AUTPKRP	0.1922D-08	0.6583D-09	-0.1755D+03	-0.9851D+01	-0.4801D-01	0.1786D+02	-0.8183D-01	0.1303D+01	0.1467D+02	-0.1267D+03
GRMUMH	-0.9405D-07	-0.3221D-07	0.8588D+04	0.4820D+03	0.2349D+01	-0.8737D+03	0.4003D+01	-0.6374D+02	-0.7177D+03	0.6198D+04
TLK822	-0.7564D-06	-0.2590D-06	0.6907D+05	0.3876D+04	0.1889D+02	-0.7027D+04	0.3220D+02	-0.5126D+03	-0.5772D+04	0.4985D+05
RFK822	0.5558D-07	0.1903D-07	-0.5075D+04	-0.2848D+03	-0.1388D+01	0.5163D+03	-0.2366D+01	0.3766D+02	0.4241D+03	-0.3662D+04
SFK822	-0.5314D-06	-0.1820D-06	0.4853D+05	0.2723D+04	0.1327D+02	-0.4937D+04	0.2262D+02	-0.3601D+03	-0.4055D+04	0.3502D+05
CSFMR822	-0.1976D-06	-0.6765D-07	0.1804D+05	0.1012D+04	0.4934D+01	-0.1835D+04	0.8410D+01	-0.1339D+03	-0.1508D+04	0.1302D+05
LOIIND61	0.2641D-08	0.9042D-09	-0.2411D+03	-0.1353D+02	-0.6595D-01	0.2453D+02	-0.1124D+00	0.1790D+01	0.2015D+02	-0.1740D+03
LOIAS	0.1715D-08	0.5873D-09	-0.1566D+03	-0.8790D+01	-0.4284D-01	0.1593D+02	-0.7301D-01	0.1162D+01	0.1309D+02	-0.1130D+03
MOP62	0.6545D-08	0.2241D-08	-0.5976D+03	-0.3354D+02	-0.1635D+00	0.6080D+02	-0.2786D+00	0.4435D+01	0.4994D+02	-0.4313D+03
PRMVACR1	0.2651D-12	0.9077D-13	-0.2421D-01	-0.1358D-02	-0.6621D-05	0.2463D-02	-0.1128D-04	0.1796D-03	0.2023D-02	-0.1747D-01
KMPARR1	0.1000D+01	0.3424D+00	-0.9132D+11	-0.5124D+10	-0.2498D+08	0.9290D+10	-0.4257D+08	0.6777D+09	0.7631D+10	-0.6590D+11
DICR1	0.2920D+01	0.1000D+01	-0.2667D+12	-0.1497D+11	-0.7294D+08	0.2713D+11	-0.1243D+09	0.1979D+10	0.2228D+11	-0.1924D+12
PGRPKM	-0.1095D-10	-0.3750D-11	0.1000D+01	0.5612D-01	0.2735D-03	-0.1017D+00	0.4661D-03	-0.7421D-02	-0.8356D-01	0.7216D+00
PDRQ	-0.1951D-09	-0.6682D-10	0.1782D+02	0.1000D+01	0.4874D-02	-0.1813D+01	0.8307D-02	-0.1322D+00	-0.1489D+01	0.1286D+02
ENTRNMDC	-0.4004D-07	-0.1371D-07	0.3656D+04	0.2052D+03	0.1000D+01	-0.3720D+03	0.1704D+01	-0.2713D+02	-0.3055D+03	0.2638D+04
PPAS	0.1076D-09	0.3686D-10	-0.9830D+01	-0.5516D+00	-0.2689D-02	0.1000D+01	-0.4582D-02	0.7295D-01	0.8214D+00	-0.7094D+01
SURPOL	-0.2349D-07	-0.8044D-08	0.2145D+04	0.1204D+03	0.5867D+00	-0.2182D+03	0.1000D+01	-0.1592D+02	-0.1793D+03	0.1548D+04
PERPA	0.1476D-08	0.5053D-09	-0.1347D+03	-0.7562D+01	-0.3685D-01	0.1371D+02	-0.6281D-01	0.1000D+01	0.1126D+02	-0.9724D+02
PRCHOM	0.1311D-09	0.4487D-10	-0.1197D+02	-0.6716D+00	-0.3273D-02	0.1217D+01	-0.5578D-02	0.8881D-01	0.1000D+01	-0.8636D+01
PRFEVM	-0.1518D-10	-0.5196D-11	0.1386D+01	0.7776D-01	0.3790D-03	-0.1410D+00	0.6460D-03	-0.1028D-01	-0.1158D+00	0.1000D+01
HEUHM	-0.9129D-08	-0.3126D-08	0.8336D+03	0.4678D+02	0.2280D+00	-0.8481D+02	0.3886D+00	-0.6187D+01	-0.6966D+02	0.6016D+03
PRMED	0.7702D-08	0.2637D-08	-0.7033D+03	-0.3947D+02	-0.1924D+00	0.7155D+02	-0.3279D+00	0.5220D+01	0.5877D+02	-0.5076D+03
PRALT	0.2662D-08	0.9114D-09	-0.2430D+03	-0.1364D+02	-0.6647D-01	0.2472D+02	-0.1133D+00	0.1804D+01	0.2031D+02	-0.1754D+03
PRMTRAR1	0.2138D-13	0.7322D-14	-0.1953D-02	-0.1096D-03	-0.5340D-06	0.1986D-03	-0.9102D-06	0.1449D-04	0.1632D-03	-0.1409D-02
PRMMAGR1	-0.6641D-09	-0.2274D-09	0.6064D+02	0.3403D+01	0.1659D-01	-0.6169D+01	0.2827D-01	-0.4500D+00	-0.5067D+01	0.4376D+02
WD	-0.3897D-07	-0.1334D-07	0.3559D+04	0.1997D+03	0.9734D+00	-0.3620D+03	0.1659D+01	-0.2641D+02	-0.2974D+03	0.2568D+04
SAT	0.1528D-07	0.5232D-08	-0.1395D+04	-0.7830D+02	-0.3816D+00	0.1419D+03	-0.6504D+00	0.1035D+02	0.1166D+03	-0.1007D+04
SHD	-0.1681D-07	-0.5756D-08	0.1535D+04	0.8615D+02	0.4199D+00	-0.1562D+03	0.7156D+00	-0.1139D+02	-0.1283D+03	0.1108D+04
constant	0.2145D-13	0.7344D-14	-0.1959D-02	-0.1099D-03	-0.5357D-06	0.1992D-03	-0.9130D-06	0.1454D-04	0.1637D-03	-0.1413D-02
=====										
X(l)	X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant
=====										
DISCEIN	-0.3240D+00	0.3841D+00	0.1112D+01	0.1383D+06	-0.4455D+01	-0.7591D-01	0.1936D+00	-0.1760D+00	0.1379D+06	
LVCEI	0.6218D+00	-0.7370D+00	-0.2133D+01	-0.2655D+06	0.8548D+01	0.1457D+00	-0.3715D+00	0.3377D+00	-0.2647D+06	
P08PC	0.6205D+00	-0.7354D+00	-0.2128D+01	-0.2649D+06	0.8530D+01	0.1453D+00	-0.3707D+00	0.3369D+00	-0.2641D+06	
PTDEM	0.9159D+00	-0.1086D+01	-0.3142D+01	-0.3911D+06	0.1259D+02	0.2146D+00	-0.5473D+00	0.4974D+00	-0.3899D+06	
NCROUT04	0.2203D+00	-0.2611D+00	-0.7557D+00	-0.9406D+05	0.3029D+01	0.5161D-01	-0.1316D+00	0.1196D+00	-0.9377D+05	
GRPOL	0.9569D+00	-0.1134D+01	-0.3282D+01	-0.4086D+06	0.1315D+02	0.2242D+00	-0.5717D+00	0.5197D+00	-0.4073D+06	
STR813	-0.1184D+02	0.1404D+02	0.4063D+02	0.5057D+07	-0.1628D+03	-0.2775D+01	0.7077D+01	-0.6432D+01	0.5041D+07	
STRP	-0.4022D+01	0.4767D+01	0.1379D+02	0.1717D+07	-0.5529D+02	-0.9421D+00	0.2403D+01	-0.2184D+01	0.1712D+07	
STRCUQ	0.5627D+02	-0.6670D+02	-0.1930D+03	-0.2403D+08	0.7736D+03	0.1318D+02	-0.3362D+02	0.3056D+02	-0.2395D+08	
GRVOY	-0.7440D+02	0.8818D+02	0.2552D+03	0.3176D+08	-0.1023D+04	-0.1743D+02	0.4445D+02	-0.4040D+02	0.3167D+08	
AUTPKRP	-0.2106D+00	0.2496D+00	0.7223D+00	0.8991D+05	-0.2895D+01	-0.4933D-01	0.1258D+00	-0.1144D+00	0.8963D+05	

GRMUMH	0.1030D+02	-0.1221D+02	-0.3534D+02	-0.4398D+07	0.1416D+03	0.2413D+01	-0.6155D+01	0.5595D+01	-0.4385D+07
TLK822	0.8286D+02	-0.9821D+02	-0.2842D+03	-0.3538D+08	0.1139D+04	0.1941D+02	-0.4951D+02	0.4500D+02	-0.3527D+08
RFK822	-0.6088D+01	0.7216D+01	0.2088D+02	0.2599D+07	-0.8369D+02	-0.1426D+01	0.3637D+01	-0.3306D+01	0.2591D+07
SFK822	0.5821D+02	-0.6899D+02	-0.1997D+03	-0.2485D+08	0.8002D+03	0.1364D+02	-0.3478D+02	0.3161D+02	-0.2478D+08
CSFMR822	0.2164D+02	-0.2565D+02	-0.7423D+02	-0.9240D+07	0.2975D+03	0.5069D+01	-0.1293D+02	0.1175D+02	-0.9211D+07
LOIIND61	-0.2893D+00	0.3428D+00	0.9922D+00	0.1235D+06	-0.3976D+01	-0.6776D-01	0.1728D+00	-0.1571D+00	0.1231D+06
LOIAS	-0.1879D+00	0.2227D+00	0.6445D+00	0.8022D+05	-0.2583D+01	-0.4401D-01	0.1123D+00	-0.1020D+00	0.7997D+05
MOP62	-0.7169D+00	0.8497D+00	0.2459D+01	0.3061D+06	-0.9855D+01	-0.1679D+00	0.4283D+00	-0.3893D+00	0.3051D+06
PRMVACR1	-0.2904D-04	0.3442D-04	0.9960D-04	0.1240D+02	-0.3992D-03	-0.6802D-05	0.1735D-04	-0.1577D-04	0.1236D+02
KMPARR1	-0.1095D+09	0.1298D+09	0.3757D+09	0.4677D+14	-0.1506D+10	-0.2566D+08	0.6545D+08	-0.5948D+08	0.4662D+14
DICR1	-0.3199D+09	0.3792D+09	0.1097D+10	0.1366D+15	-0.4398D+10	-0.7493D+08	0.1911D+09	-0.1737D+09	0.1362D+15
PGRPKM	0.1200D-02	-0.1422D-02	-0.4115D-02	-0.5121D+03	0.1649D-01	0.2810D-03	-0.7167D-03	0.6514D-03	-0.5106D+03
PDRQ	0.2138D-01	-0.2534D-01	-0.7332D-01	-0.9126D+04	0.2939D+00	0.5007D-02	-0.1277D-01	0.1161D-01	-0.9098D+04
ENTRNDC	0.4386D+01	-0.5198D+01	-0.1504D+02	-0.1873D+07	0.6029D+02	0.1027D+01	-0.2620D+01	0.2382D+01	-0.1867D+07
PPAS	-0.1179D-01	0.1398D-01	0.4045D-01	0.5034D+04	-0.1621D+00	-0.2762D-02	0.7045D-02	-0.6403D-02	0.5019D+04
SURPOL	0.2573D+01	-0.3050D+01	-0.8827D+01	-0.1099D+07	0.3538D+02	0.6028D+00	-0.1538D+01	0.1397D+01	-0.1095D+07
PERPA	-0.1616D+00	0.1916D+00	0.5544D+00	0.6901D+05	-0.2222D+01	-0.3786D-01	0.9658D-01	-0.8778D-01	0.6880D+05
PRCHOM	-0.1436D-01	0.1701D-01	0.4924D-01	0.6129D+04	-0.1973D+00	-0.3363D-02	0.8577D-02	-0.7796D-02	0.6110D+04
PRFEVM	0.1662D-02	-0.1970D-02	-0.5702D-02	-0.7097D+03	0.2285D-01	0.3894D-03	-0.9932D-03	0.9027D-03	-0.7075D+03
HEUHM	0.1000D+01	-0.1185D+01	-0.3430D+01	-0.4269D+06	0.1375D+02	0.2342D+00	-0.5975D+00	0.5430D+00	-0.4256D+06
PRMED	-0.8437D+00	0.1000D+01	0.2894D+01	0.3602D+06	-0.1160D+02	-0.1976D+00	0.5041D+00	-0.4582D+00	0.3591D+06
PRALT	-0.2915D+00	0.3455D+00	0.1000D+01	0.1245D+06	-0.4008D+01	-0.6829D-01	0.1742D+00	-0.1583D+00	0.1241D+06
PRMTRAR1	-0.2342D-05	0.2776D-05	0.8034D-05	0.1000D+01	-0.3220D-04	-0.5487D-06	0.1399D-05	-0.1272D-05	0.9969D+00
PRMMAGR1	0.7274D-01	-0.8622D-01	-0.2495D+00	-0.3106D+05	0.1000D+01	0.1704D-01	-0.4346D-01	0.3950D-01	-0.3096D+05
WD	0.4269D+01	-0.5060D+01	-0.1464D+02	-0.1823D+07	0.5869D+02	0.1000D+01	-0.2551D+01	0.2318D+01	-0.1817D+07
SAT	-0.1674D+01	0.1984D+01	0.5741D+01	0.7146D+06	-0.2301D+02	-0.3921D+00	0.1000D+01	-0.9089D+00	0.7124D+06
SHD	0.1841D+01	-0.2183D+01	-0.6316D+01	-0.7862D+06	0.2531D+02	0.4314D+00	-0.1100D+01	0.1000D+01	-0.7838D+06
constant	-0.2349D-05	0.2785D-05	0.8059D-05	0.1003D+01	-0.3230D-04	-0.5503D-06	0.1404D-05	-0.1276D-05	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0013

Estimation Sample	:	14	313
	OBSERVED Y	FITTED E(Y)	
MEAN	0.2445610D+04	0.2445318D+04	
STD.ERROR	0.9398378D+03	0.8892835D+03	
SKEWNESS	0.4739141	-0.0806003	

E(y) at the means : 0.2445145D+04

Sig(y) at the means : 0.3024451D+03

C.o.V. at the means : 0.1236921

Gam(y) at the means : -0.0002890

Pearson-R2 : 0.8962576

Pearson-R2 bar : 0.8811533

Pseudo-(1)-R2 : 0.8960971

Pseudo-(1)-R2 bar : 0.8809695

Error Variance : 0.9147100D+05

Log-likelihood : -0.2139248D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

12	500	0.1D+01	0.1D-06								
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00
0.00000D+00	0.10000D+01										
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.10000D+01	0.10000D+01										
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

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0.00000D+00 0.00000D+00

first entry to fcfn , parameters of current step follow - - f,x(i)
0.6692121505D+02 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.10000D+01

new absolute minimum , parameters for fcfn entry 9 follow - - f,x(i)
-0.6745092440D+02 0.19116D+00 -0.55530D-01 -0.90739D-01 -0.94040D-01 -0.11044D+00 -0.97260D-01 -0.89889D-01 -0.73059D-01
0.10499D+00 0.24874D+00 0.15230D+00 0.81543D+00

new absolute minimum , parameters for fcfn entry 13 follow - - f,x(i)
-0.7292845922D+02 0.20172D+00 -0.78634D-01 -0.10933D+00 -0.10550D+00 -0.11557D+00 -0.98122D-01 -0.87039D-01 -0.69249D-01
0.12328D+00 0.27049D+00 0.15481D+00 0.79359D+00

new absolute minimum , parameters for fcfn entry 17 follow - - f,x(i)
-0.9438207253D+02 0.25527D+00 -0.19043D+00 -0.12626D+00 -0.43018D-01 -0.35468D-01 -0.44593D-01 -0.87609D-01 -0.14094D+00
0.12628D+00 0.37419D+00 0.12302D+00 0.55239D+00

new absolute minimum , parameters for fcfn entry 21 follow - - f,x(i)
-0.1043379285D+03 0.26920D+00 -0.20831D+00 -0.70670D-01 -0.15655D-01 -0.62636D-01 -0.10645D+00 -0.10645D+00 -0.12383D+00
0.17116D+00 0.38565D+00 0.11163D-01 0.34296D+00

new absolute minimum , parameters for fcfn entry 24 follow - - f,x(i)
-0.1073714804D+03 0.31790D+00 -0.18589D+00 -0.73054D-01 -0.51853D-01 -0.83841D-01 -0.10256D+00 -0.71456D-01 -0.99738D-01
0.13430D+00 0.35455D+00 -0.20152D-01 0.24122D+00

new absolute minimum , parameters for fcfn entry 27 follow - - f,x(i)
-0.1086756261D+03 0.40190D+00 -0.18566D+00 -0.75191D-01 -0.70640D-01 -0.46611D-01 -0.11087D+00 -0.76062D-01 -0.10397D+00
0.16855D+00 0.28292D+00 -0.36189D-01 0.20965D+00

new absolute minimum , parameters for fcfn entry 29 follow - - f,x(i)
-0.1088517610D+03 0.41683D+00 -0.17820D+00 -0.61916D-01 -0.58562D-01 -0.29154D-01 -0.11557D+00 -0.59533D-01 -0.77624D-01
0.18194D+00 0.28118D+00 -0.17317D-01 0.20333D+00

new absolute minimum , parameters for fcfn entry 32 follow - - f,x(i)
-0.1089717960D+03 0.41299D+00 -0.17076D+00 -0.49603D-01 -0.83587D-01 -0.77955D-02 -0.11913D+00 -0.53825D-01 -0.82154D-01
0.18998D+00 0.28856D+00 -0.23628D-01 0.20814D+00

new absolute minimum , parameters for fcfn entry 35 follow - - f,x(i)
-0.1096684600D+03 0.41352D+00 -0.17908D+00 -0.81145D-01 -0.51853D-01 -0.33874D-02 -0.12861D+00 -0.79708D-01 -0.86239D-01
0.20170D+00 0.25384D+00 -0.40556D-01 0.23877D+00

new absolute minimum , parameters for fcfn entry 38 follow - - f,x(i)
-0.1098779935D+03 0.41042D+00 -0.20301D+00 -0.63166D-01 -0.82670D-01 -0.26624D-01 -0.12767D+00 -0.59186D-01 -0.11368D+00
0.21570D+00 0.22778D+00 -0.29021D-01 0.24694D+00

new absolute minimum , parameters for fcfn entry 40 follow - - f,x(i)
-0.1098813355D+03 0.41198D+00 -0.20550D+00 -0.62876D-01 -0.82015D-01 -0.26245D-01 -0.13156D+00 -0.57243D-01 -0.11417D+00
0.21322D+00 0.22841D+00 -0.30269D-01 0.24875D+00

new absolute minimum , parameters for fcfn entry 42 follow - - f,x(i)
-0.1099321353D+03 0.41001D+00 -0.19863D+00 -0.65853D-01 -0.74472D-01 -0.30911D-01 -0.12978D+00 -0.52988D-01 -0.12054D+00
0.21944D+00 0.23349D+00 -0.37147D-01 0.26255D+00

new absolute minimum , parameters for fcfn entry 44 follow - - f,x(i)
-0.1099928447D+03 0.39641D+00 -0.20550D+00 -0.63347D-01 -0.77121D-01 -0.30069D-01 -0.13321D+00 -0.64557D-01 -0.11880D+00
0.21674D+00 0.22881D+00 -0.29313D-01 0.27155D+00

new absolute minimum , parameters for fcfn entry 46 follow - - f,x(i)
-0.1099930739D+03 0.39704D+00 -0.20597D+00 -0.62496D-01 -0.77225D-01 -0.30409D-01 -0.13246D+00 -0.65073D-01 -0.11828D+00
0.21655D+00 0.22919D+00 -0.29680D-01 0.27197D+00

new absolute minimum , parameters for fcfn entry 48 follow - - f,x(i)
-0.1099958167D+03 0.39611D+00 -0.20646D+00 -0.61666D-01 -0.76004D-01 -0.30100D-01 -0.13309D+00 -0.64636D-01 -0.11756D+00
0.21761D+00 0.23098D+00 -0.28910D-01 0.27202D+00

new absolute minimum , parameters for fcfn entry 50 follow - - f,x(i)
-0.1099959353D+03 0.39658D+00 -0.20644D+00 -0.61415D-01 -0.75768D-01 -0.29656D-01 -0.13320D+00 -0.64507D-01 -0.11717D+00
0.21799D+00 0.23079D+00 -0.28770D-01 0.27112D+00

new absolute minimum , parameters for fcfn entry 52 follow - - f,x(i)
-0.1099959359D+03 0.39660D+00 -0.20643D+00 -0.61410D-01 -0.75800D-01 -0.29651D-01 -0.13321D+00 -0.64520D-01 -0.11718D+00
0.21801D+00 0.23078D+00 -0.28809D-01 0.27109D+00

new absolute minimum , parameters for fcfn entry 53 follow - - f,x(i)
-0.1099959359D+03 0.39660D+00 -0.20643D+00 -0.61408D-01 -0.75799D-01 -0.29652D-01 -0.13321D+00 -0.64518D-01 -0.11717D+00
0.21801D+00 0.23078D+00 -0.28808D-01 0.27108D+00

new absolute minimum , parameters for fcfn entry 54 follow - - f,x(i)
-0.1099959359D+03 0.39660D+00 -0.20643D+00 -0.61408D-01 -0.75799D-01 -0.29653D-01 -0.13321D+00 -0.64518D-01 -0.11717D+00
0.21801D+00 0.23078D+00 -0.28809D-01 0.27108D+00

new absolute minimum , parameters for fcfn entry 55 follow - - f,x(i)
-0.1099959359D+03 0.39660D+00 -0.20643D+00 -0.61408D-01 -0.75799D-01 -0.29653D-01 -0.13321D+00 -0.64518D-01 -0.11717D+00
0.21801D+00 0.23078D+00 -0.28809D-01 0.27108D+00

the function (fcfn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.1099959359D+03 0.39660D+00 -0.20643D+00 -0.61408D-01 -0.75799D-01 -0.29653D-01 -0.13321D+00 -0.64518D-01 -0.11717D+00
0.21801D+00 0.23078D+00 -0.28809D-01 0.27108D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcfn) was -0.1099959359D+03 for entry 55 - - x(i) follows
0.39660D+00 -0.20643D+00 -0.61408D-01 -0.75799D-01 -0.29653D-01 -0.13321D+00 -0.64518D-01 -0.11717D+00 0.21801D+00 0.23078D+00
-0.28809D-01 0.27108D+00

```


run statistics follow - -

nfcn= 55 nst= 20

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.2445610D+04	0.2444683D+04
STD.ERROR	0.9398378D+03	0.9137322D+03
SKEWNESS	0.4739141	0.3898577

E(y) at the means : 0.2375027D+04

Sig(y) at the means : 0.1739581D+03

C.o.V. at the means : 0.0732447

Gam(y) at the means : 0.1587169

Pearson-R2 : 0.9638581

Pearson-R2 bar : 0.9566007

Pseudo-(1)-R2 : 0.9418225

Pseudo-(1)-R2 bar : 0.9301403

Error Variance : 0.3626852D+00

Log-likelihood : -0.1962331D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y) SIGMA(y) GAMMA(y)	y(sample)	E(y) SIGMA(y) GAMMA(y)
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	0.4048352D+01	0.7603882D-06	0.3754654D+01	1.0782	0.2237	0.2254	0.4731	0.4730
					0.1178203D+01	3.4360		0.1643		0.3448
								-0.0634		-0.1339
2 LVCEI	NL	0	-0.4682242D+00	0.4294625D-06	0.5222307D+00	-0.8966	-0.0145	-0.0146	-0.0547	-0.0547
					0.2838925D+00	-1.6493		-0.0106		-0.0399
								0.0041		0.0155
3 P08PC	NL	0	-0.1858635D+00	0.8666657D-06	0.4471308D+00	-0.4157	-0.0117	-0.0118	-0.0217	-0.0217
					0.4208615D+00	-0.4416		-0.0086		-0.0158
								0.0033		0.0061
4 PTDEM	NL	0	-0.7702226D+00	0.6550207D-06	0.8735784D+00	-0.8817	-0.0365	-0.0368	-0.0900	-0.0900
					0.4214233D+00	-1.8277		-0.0268		-0.0656
								0.0104		0.0255
5 NCR0UT04	NL	0	-0.1560814D+01	0.5006677D-07	0.1382377D+01	-1.1291	-0.0056	-0.0057	-0.1368	-0.1368
					0.4870330D+00	-3.2047		-0.0041		-0.0997
								0.0016		0.0387
6 GRPOL	NL	0	0.1455440D+00	0.1741607D-07	0.2867686D+00	0.5075	0.0002	0.0002	0.0000	0.0000
					0.2551654D+00	0.5704		0.0001		0.0000
								-0.0001		0.0000
7 STR813	NL	0	0.3258581D-01	0.7861919D-06	0.3517661D-01	0.9263	0.0019	0.0019	0.0041	0.0041
					0.2254790D-01	1.4452		0.0014		0.0030
								-0.0005		-0.0012
8 STRP	NL	0	-0.7152926D-02	0.2131114D-06	0.5857027D-01	-0.1221	-0.0001	-0.0001	-0.0006	-0.0006
					0.5856949D-01	-0.1221		-0.0001		-0.0004
								0.0000		0.0002
9 STRCUQ	NL	0	-0.1309636D-01	0.2115398D-05	0.1545549D-01	-0.8474	-0.0021	-0.0021	-0.0019	-0.0019
					0.1016519D-01	-1.2884		-0.0015		-0.0014
								0.0006		0.0005
10 GRVOY	NL	0	0.3299036D-03	0.1298241D-05	0.1091892D-01	0.0302	0.0000	0.0000	0.0000	0.0000
					0.1088923D-01	0.0303		0.0000		0.0000
								0.0000		0.0000
11 AUTPKRP	NL	0	-0.8978848D+00	0.5369777D-06	0.3042527D+01	-0.2951	-0.0352	-0.0355	-0.0539	-0.0539
					0.2730370D+01	-0.3289		-0.0259		-0.0393
								0.0100		0.0153
12 GRMUMH	NL	0	0.3347266D-01	0.2848397D-06	0.4365312D-01	0.7668	0.0007	0.0007	0.0000	0.0000
					0.3290521D-01	1.0172		0.0005		0.0000
								-0.0002		0.0000
13 TLK822	NL	0	0.1181453D-02	0.3157766D-03	0.1656207D-02	0.7133	0.0275	0.0277	0.0260	0.0260
					0.1235923D-02	0.9559		0.0202		0.0190
								-0.0078		-0.0074
14 RFK822	NL	0	0.4929178D-02	0.1259681D-05	0.1065335D+00	0.0463	0.0005	0.0005	0.0004	0.0004
					0.1065053D+00	0.0463		0.0003		0.0003
								-0.0001		-0.0001
15 SFK822	NL	0	0.1283706D-01	0.4112240D-05	0.2325643D-01	0.5520	0.0039	0.0039	0.0025	0.0025
					0.2294484D-01	0.5595		0.0029		0.0018
								-0.0011		-0.0007
16 CSFMR822	NL	0	-0.8220481D-02	0.3856869D-04	0.7346582D-02	-1.1190	-0.0233	-0.0235	-0.0192	-0.0192
					0.4312568D-02	-1.9062		-0.0171		-0.0140
								0.0066		0.0054
17 LOIIND61	NL	0	0.1097312D+01	0.1414932D-05	0.8751398D+00	1.2539	0.1138	0.1147	0.1282	0.1282
					0.3142727D+00	3.4916		0.0836		0.0934
								-0.0323		-0.0363
18 LOIAS	NL	0	0.2177359D+01	0.3262031D-06	0.1888269D+01	1.1531	0.0508	0.0512	0.2545	0.2544
					0.2676343D+00	8.1356		0.0373		0.1854
								-0.0144		-0.0720
19 MOP62	NL	0	0.5533281D+00	0.1349838D-05	0.5427837D+00	1.0194	0.0547	0.0551	0.0647	0.0646

					0.2798020D+00	1.9776		0.0402	0.0471
20	PRMVACR1	NL	0	0.2215226D+04	0.7101638D-10	0.3404767D+04	0.6506	-0.0155	-0.0183
					0.2572201D+04	0.8612	0.0116	0.0117	0.0128
								0.0085	0.0093
21	KMPARR1	EL	1	0.1129521D-01	0.2142661D-02	0.1710713D-01	0.6603	-0.0033	-0.0036
						0.5830128D-02	1.9374	0.4906	0.4928
								0.3576	0.3592
22	DICR1	EL	1	0.1984894D-02	0.7375227D-03	0.2785019D-02	0.7127	-0.1380	-0.1395
						0.1965868D-02	1.0097	0.0312	0.0348
								0.0227	0.0253
23	PGRPKM	EL	1	-0.9770053D+01	-0.4071964D-05	0.1285909D+02	-0.7598	-0.0088	-0.0098
						0.3993164D+01	-2.4467	-0.3872	-0.4244
								-0.2822	-0.3093
24	PDRQ	EL	1	-0.3988282D+00	-0.2872435D-05	0.3535199D+01	-0.1128	0.1089	0.1201
						0.3428297D+01	-0.1163	-0.0254	-0.0279
								-0.0185	-0.0203
25	ENTRNMD	EL	1	-0.1961123D+01	0.1249183D-04	0.9492407D+00	-2.0660	0.0072	0.0079
						0.4940796D+00	-3.9692	-0.7326	-0.7532
								-0.5340	-0.5490
26	PPAS	EL	1	0.6470126D+01	-0.2370029D-05	0.8641275D+01	0.7487	0.2061	0.2132
						0.4498707D+01	1.4382	0.4792	0.5249
								0.3493	0.3826
27	SURPOL	EL	1	0.8092734D+00	0.4620123D-05	0.6515628D+00	1.2420	-0.1348	-0.1486
						0.4010510D+00	2.0179	0.1743	0.1644
								0.1270	0.1199
28	PERPA	EL	1	-0.6865140D+00	0.4401882D-06	0.1722198D+01	-0.3986	-0.0490	-0.0465
						0.1470326D+01	-0.4669	-0.0895	-0.0888
								-0.0653	-0.0647
29	PRCHOM	EL	1	-0.2218266D+01	-0.3552478D-05	0.2889623D+01	-0.7677	0.0252	0.0251
						0.1113795D+01	-1.9916	-0.1118	-0.1194
								-0.0815	-0.0870
30	PRFEVM	EL	1	-0.4997349D+01	-0.4243505D-05	0.7542721D+01	-0.6625	0.0314	0.0338
						0.4841785D+01	-1.0321	-0.1806	-0.1696
								-0.1316	-0.1236
31	HEUHM	EL	1	0.3156724D+00	0.1039728D-04	0.1211610D+01	0.2605	0.0508	0.0480
						0.1210112D+01	0.2609	0.1045	0.0988
								0.0762	0.0720
32	PRMED	EL	1	0.1701225D+01	0.2078292D-05	0.1351064D+01	1.2592	-0.0294	-0.0280
						0.5844080D+00	2.9110	0.2786	0.2834
								0.2030	0.2066
33	PRALT	EL	1	-0.1087713D+00	-0.5444096D-06	0.8773336D+00	-0.1240	-0.0784	-0.0802
						0.8759544D+00	-0.1242	-0.0121	-0.0118
								-0.0088	-0.0086
34	PRMTRAR1	EL	1	0.3190930D+02	-0.5619778D-05	0.6816825D+02	0.4681	0.0034	0.0034
						0.1966328D+02	1.6228	0.2678	0.2439
								0.1952	0.1778
35	PRMAGRI	EL	1	0.2263561D+01	-0.2469479D-05	0.3129724D+01	0.7232	-0.0753	-0.0690
						0.2116007D+01	1.0697	0.1627	0.1588
								0.1186	0.1157
36	WD	EL	1	0.6642647D+00	0.7710958D-05	0.6309741D+00	1.0528	-0.0458	-0.0449
						0.5482924D+00	1.2115	0.1839	0.1772
								0.1341	0.1291
37	SAT	EL	1	0.8857898D+00	0.2941990D-05	0.6393487D+00	1.3855	-0.0517	-0.0501
						0.2891302D+00	3.0636	0.1603	0.1540
								0.1169	0.1123
38	SHD	EL	1	0.5054799D+00	0.3388726D-05	0.4119279D+00	1.2271	-0.0451	-0.0436
						0.2508355D+00	2.0152	0.0962	0.0918
								0.0701	0.0669
39	constant	NL	0	0.9027807D+02	0.1635216D-05	0.1771680D+03	0.5096	-0.0271	-0.0260
						0.6790268D+02	1.3295	10.9715	10.5479
								7.9965	7.6879
								-3.0864	-2.9852
Autocorrelation									
40	rho 1			0.3770354D+00	-0.2465950D-05	0.5814662D-01	6.4842		
						0.5790166D-01	6.5117		
41	rho 3			-0.2035467D+00	-0.5156775D-06	0.6928002D-01	-2.9380		
						0.6926745D-01	-2.9386		
42	rho 4			-0.6133080D-01	0.3294627D-06	0.7059368D-01	-0.8688		
						0.7053594D-01	-0.8695		
43	rho 5			-0.7565406D-01	0.8161017D-06	0.7705227D-01	-0.9819		
						0.7701420D-01	-0.9823		
44	rho 6			-0.2964392D-01	0.5012334D-06	0.6920493D-01	-0.4283		
						0.6920349D-01	-0.4284		
45	rho 7			-0.1324276D+00	0.7759500D-06	0.6895667D-01	-1.9204		
						0.6894564D-01	-1.9208		
46	rho 8			-0.6442834D-01	0.1311586D-05	0.7715085D-01	-0.8351		
						0.7712738D-01	-0.8353		
47	rho 9			-0.1166387D+00	0.1597696D-05	0.7571839D-01	-1.5404		
						0.7543401D-01	-1.5462		
48	rho 11			0.2146170D+00	-0.4922092D-06	0.6885360D-01	3.1170		
						0.6870584D-01	3.1237		
49	rho 12			0.2267645D+00	-0.1453277D-05	0.6113659D-01	3.7091		
						0.6004098D-01	3.7768		
50	rho 13			-0.2880058D-01	-0.2249181D-05	0.6931623D-01	-0.4155		
						0.6928097D-01	-0.4157		
Box-cox on (x)									
51	lambda(x) 1 = lambda(y)			0.2710834D+00	0.6317556D-03	0.1076689D+00	2.5178		

Residual (w)

52 error variance	0.3626852D+00	-0.2788880D-12	0.6012184D+00 0.3342938D-01	0.6033 10.8493
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LAMBDA TYPE SYMBOL:

NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.1194345D+04	0.1168501D+04	0.6237943D+02	-0.2196718D-01
2 LVCEI	-0.1381355D+03	-0.1351464D+03	-0.7214680D+01	0.2540680D-02
3 P08PC	-0.5483346D+02	-0.5364692D+02	-0.2863896D+01	0.1008533D-02
4 PTDEM	-0.2272311D+03	-0.2223141D+03	-0.1186805D+02	0.4179384D-02
5 NCROUT04	-0.4604714D+03	-0.4505073D+03	-0.2404996D+02	0.8469294D-02
6 GRPOL	0.4293841D+02	0.4200927D+02	0.2242630D+01	-0.7897516D-03
7 STR813	0.9613466D+01	0.9405441D+01	0.5021016D+00	-0.1768172D-03
8 STRP	-0.2110257D+01	-0.2064593D+01	-0.1102166D+00	0.3881323D-04
9 STRCUQ	-0.3863688D+01	-0.3780082D+01	-0.2017965D+00	0.7106350D-04
10 GRVOY	0.9732817D-01	0.9522209D-01	0.5083352D-02	-0.1790124D-05
11 AUTPKRP	-0.2648940D+03	-0.2591620D+03	-0.1383515D+02	0.4872105D-02
12 GRMUMH	0.9875105D+01	0.9661418D+01	0.5157668D+00	-0.1816294D-03
13 TLK822	0.3485523D+00	0.3410100D+00	0.1820453D-01	-0.6410804D-05
14 RFK822	0.1454206D+01	0.1422739D+01	0.7595172D-01	-0.2674672D-04
15 SFK822	0.3787189D+01	0.3705238D+01	0.1978010D+00	-0.6965647D-04
16 CSFMR822	-0.2425207D+01	-0.2372728D+01	-0.1266661D+00	0.4460600D-04
17 LOIIND61	0.3237292D+03	0.3167240D+03	0.1690805D+02	-0.5954240D-02
18 LOIAS	0.6423644D+03	0.6284644D+03	0.3355005D+02	-0.1181479D-01
19 MOP62	0.1632429D+03	0.1597105D+03	0.8526011D+01	-0.3002471D-02
20 PRMVACR1	0.6535361D+06	0.6393943D+06	0.3413353D+05	-0.1202027D+02
21 KMPARR1	0.4544442D-06	0.4446105D-06	0.2373516D-07	-0.8358437D-11
22 DICR1	0.1230513D-05	0.1203886D-05	0.6426846D-07	-0.2263241D-10
23 PGRPKM	-0.5864971D+05	-0.5738059D+05	-0.3063215D+04	0.1078724D+01
24 PDRQ	-0.6661735D+03	-0.6517582D+03	-0.3479357D+02	0.1225270D-01
25 ENTRNMD	-0.2825000D+02	-0.2763870D+02	-0.1475469D+01	0.5195927D-03
26 PPAS	0.7228993D+04	0.7072565D+04	0.3775630D+03	-0.1329604D+00
27 SURPOL	0.5124509D+02	0.5013620D+02	0.2676479D+01	-0.9425334D-03
28 PERPA	-0.1674890D+03	-0.1638648D+03	-0.8747783D+01	0.3080569D-02
29 PRCHOM	-0.6985597D+04	-0.6834436D+04	-0.3648507D+03	0.1284837D+00
30 PRFEVM	-0.3845924D+05	-0.3762702D+05	-0.2008687D+04	0.7073676D+00
31 HEUHM	0.6292471D+01	0.6156308D+01	0.3286494D+00	-0.1157353D-03
32 PRMED	0.2251195D+03	0.2202482D+03	0.1175776D+02	-0.4140546D-02
33 PRALT	-0.4088488D+02	-0.4000017D+02	-0.2135376D+01	0.7519816D-03
34 PRMTRARI	0.1243987D+08	0.1217068D+08	0.6497217D+06	-0.2288022D+03
35 PRMMAGRI	0.2740673D+04	0.2681368D+04	0.1431426D+03	-0.5040826D-01
36 WD	0.2140537D+02	0.2094218D+02	0.1117981D+01	-0.3937016D-03
37 SAT	0.8954049D+02	0.8760293D+02	0.4676610D+01	-0.1646888D-02
38 SHD	0.4467139D+02	0.4370475D+02	0.2333142D+01	-0.8216257D-03
39 constant	0.2663384D+05	0.2605751D+05	0.1391059D+04	-0.4898671D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1873D+02	-0.5319D+05
SIGMA(y)	0.5338D-01	0.1000D+01	-0.2840D+04
GAMMA(y)	-0.1880D-04	-0.3522D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1372D+01	-0.3555D+01
SIGMA(y)	0.7288D+00	0.1000D+01	-0.2591D+01
GAMMA(y)	-0.2813D+00	-0.3860D+00	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	-0.1157D+00	-0.4591D-01	-0.1903D+00	-0.3855D+00	0.3595D-01	0.8049D-02	-0.1767D-02	-0.3235D-02	0.8149D-04
LVCEI		-0.8646D+01	0.1000D+01	0.3970D+00	0.1645D+01	0.3333D+01	-0.3108D+00	-0.6959D-01	0.1528D-01	0.2797D-01	-0.7046D-03
P08PC		-0.2178D+02	0.2519D+01	0.1000D+01	0.4144D+01	0.8398D+01	-0.7831D+00	-0.1753D+00	0.3848D-01	0.7046D-01	-0.1775D-02
PTDEM		-0.5256D+01	0.6079D+00	0.2413D+00	0.1000D+01	0.2026D+01	-0.1890D+00	-0.4231D-01	0.9287D-02	0.1700D-01	-0.4283D-03
NCROUT04		-0.2594D+01	0.3000D+00	0.1191D+00	0.4935D+00	0.1000D+01	-0.9325D-01	-0.2088D-01	0.4583D-02	0.8391D-02	-0.2114D-03
GRPOL		0.2782D+02	-0.3217D+01	-0.1277D+01	-0.5292D+01	-0.1072D+02	0.1000D+01	0.2239D+00	-0.4915D-01	-0.8998D-01	0.2267D-02
STR813		0.1242D+03	-0.1437D+02	-0.5704D+01	-0.2364D+02	-0.4790D+02	0.4466D+01	0.1000D+01	-0.2195D+00	-0.4019D+00	0.1012D-01
STRP		-0.5660D+03	0.6546D+02	0.2598D+02	0.1077D+03	0.2182D+03	-0.2035D+02	-0.4556D+01	0.1000D+01	0.1831D+01	-0.4612D-01
STRCUQ		-0.3091D+03	0.3575D+02	0.1419D+02	0.5881D+02	0.1192D+03	-0.1111D+02	-0.2488D+01	0.5462D+00	0.1000D+01	-0.2519D-01
GRVOY		0.1227D+05	-0.1419D+04	-0.5634D+03	-0.2335D+04	-0.4731D+04	0.4412D+03	0.9877D+02	-0.2168D+02	-0.3970D+02	0.1000D+01
AUTPKRP		-0.4509D+01	0.5215D+00	0.2070D+00	0.8578D+00	0.1738D+01	-0.1621D+00	-0.3629D-01	0.7966D-02	0.1459D-01	-0.3674D-03
GRMUMH		0.1209D+03	-0.1399D+02	-0.5553D+01	-0.2301D+02	-0.4663D+02	0.4348D+01	0.9735D+00	-0.2137D+00	-0.3913D+00	0.9856D-02
TLK822		0.3427D+04	-0.3963D+03	-0.1573D+03	-0.6519D+03	-0.1321D+04	0.1232D+03	0.2758D+02	-0.6054D+01	-0.1108D+02	0.2792D+00
RFK822		0.8213D+03	-0.9499D+02	-0.3771D+02	-0.1563D+03	-0.3166D+03	0.2953D+02	0.6611D+01	-0.1451D+01	-0.2657D+01	0.6693D-01
SFK822		0.3154D+03	-0.3647D+02	-0.1448D+02	-0.6000D+02	-0.1216D+03	0.1134D+02	0.2538D+01	-0.5572D+00	-0.1020D+01	0.2570D-01
CSFMR822		-0.4925D+03	0.5696D+02	0.2261D+02	0.9370D+02	0.1899D+03	-0.1771D+02	-0.3964D+01	0.8701D+00	0.1593D+01	-0.4013D-01
LOIIND61		0.3689D+01	-0.4267D+00	-0.1694D+00	-0.7019D+00	-0.1422D+01	0.1326D+00	0.2970D-01	-0.6519D-02	-0.1193D-01	0.3006D-03
LOIAS		0.1859D+01	-0.2150D+00	-0.8536D-01	-0.3537D+00	-0.7168D+00	0.6684D-01	0.1497D-01	-0.3285D-02	-0.6015D-02	0.1515D-03
MOP62		0.7316D+01	-0.8462D+00	-0.3359D+00	-0.1392D+01	-0.2821D+01	0.2630D+00	0.5889D-01	-0.1293D-01	-0.2367D-01	0.5962D-03
PRMVACR1		0.1828D-02	-0.2114D-03	-0.8390D-04	-0.3477D-03	-0.7046D-03	0.6570D-04	0.1471D-04	-0.3229D-05	-0.5912D-05	0.1489D-06
KMPARR1		0.2628D+10	-0.3040D+09	-0.1207D+09	-0.5000D+09	-0.1013D+10	0.9449D+08	0.2115D+08	-0.4644D+07	-0.8502D+07	0.2142D+06
DICR1		0.9706D+09	-0.1123D+09	-0.4456D+08	-0.1847D+09	-0.3742D+09	0.3489D+08	0.7813D+07	-0.1715D+07	-0.3140D+07	0.7910D+05
PGRPKM		-0.2036D-01	0.2355D-02	0.9349D-03	0.3874D-02	0.7851D-02	-0.7321D-03	-0.1639D-03	0.3598D-04	0.6588D-04	-0.1659D-05
PDRQ		-0.1793D+01	0.2074D+00	0.8231D-01	0.3411D+00	0.6912D+00	-0.6446D-01	-0.1443D-01	0.3168D-02	0.5800D-02	-0.1461D-03
ENTRNMDC		-0.4228D+02	0.4890D+01	0.1941D+01	0.8044D+01	0.1630D+02	-0.1520D+01	-0.3403D+00	0.7470D-01	0.1368D+00	-0.3445D-02
FPAS		0.1652D+00	-0.1911D-01	-0.7585D-02	-0.3143D-01	-0.6370D-01	0.5940D-02	0.1330D-02	-0.2919D-03	-0.5345D-03	0.1346D-04
SURPOL		0.2331D+02	-0.2696D+01	-0.1070D+01	-0.4434D+01	-0.8986D+01	0.8379D+00	0.1876D+00	-0.4118D-01	-0.7540D-01	0.1899D-02
PERPA		-0.7131D+01	0.8247D+00	0.3274D+00	0.1357D+01	0.2749D+01	-0.2564D+00	-0.5740D-01	0.1260D-01	0.2307D-01	-0.5811D-03
PRCHOM		-0.1710D+00	0.1977D-01	0.7850D-02	0.3253D-01	0.6592D-01	-0.6147D-02	-0.1376D-02	0.3021D-03	0.5531D-03	-0.1393D-04
PRFEVM		-0.3105D-01	0.3592D-02	0.1426D-02	0.5908D-02	0.1197D-01	-0.1116D-02	-0.2500D-03	0.5487D-04	0.1005D-03	-0.2531D-05
HEUHM		0.1898D+03	-0.2195D+02	-0.8714D+01	-0.3611D+02	-0.7318D+02	0.6824D+01	0.1528D+01	-0.3354D+00	-0.6140D+00	0.1547D-01
PRMED		0.5305D+01	-0.6136D+00	-0.2436D+00	-0.1009D+01	-0.2045D+01	0.1907D+00	0.4270D-01	-0.9374D-02	-0.1716D-01	0.4323D-03
PRALT		-0.2921D+02	0.3379D+01	0.1341D+01	0.5558D+01	0.1126D+02	-0.1050D+01	-0.2351D+00	0.5161D-01	0.9450D-01	-0.2381D-02
PRMTRAR1		0.9601D-04	-0.1110D-04	-0.4408D-05	-0.1827D-04	-0.3702D-04	0.3452D-05	0.7728D-06	-0.1696D-06	-0.3106D-06	0.7824D-08

PRMMAGR1	0.4358D+00	-0.5040D-01	-0.2001D-01	-0.8291D-01	-0.1680D+00	0.1567D-01	0.3508D-02	-0.7700D-03	-0.1410D-02	0.3551D-04
WD	0.5580D+02	-0.6453D+01	-0.2562D+01	-0.1062D+02	-0.2151D+02	0.2006D+01	0.4491D+00	-0.9859D-01	-0.1805D+00	0.4547D-02
SAT	0.1334D+02	-0.1543D+01	-0.6124D+00	-0.2538D+01	-0.5143D+01	0.4795D+00	0.1074D+00	-0.2357D-01	-0.4315D-01	0.1087D-02
SHD	0.2674D+02	-0.3092D+01	-0.1227D+01	-0.5087D+01	-0.1031D+02	0.9612D+00	0.2152D+00	-0.4724D-01	-0.8649D-01	0.2179D-02
constant	0.4484D-01	-0.5186D-02	-0.2059D-02	-0.8532D-02	-0.1729D-01	0.1612D-02	0.3609D-03	-0.7923D-04	-0.1451D-03	0.3654D-05
=====										
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62
=====										
DISCEIN	-0.2218D+00	0.8268D-02	0.2918D-03	0.1218D-02	0.3171D-02	-0.2031D-02	0.2711D+00	0.5378D+00	0.1367D+00	0.5472D+03
LVCEI	0.1918D+01	-0.7149D-01	-0.2523D-02	-0.1053D-01	-0.2742D-01	0.1756D-01	-0.2344D+01	-0.4650D+01	-0.1182D+01	-0.4731D+04
P08PC	0.4831D+01	-0.1801D+00	-0.6357D-02	-0.2652D-01	-0.6907D-01	0.4423D-01	-0.5904D+01	-0.1171D+02	-0.2977D+01	-0.1192D+05
PTDEM	0.1166D+01	-0.4346D-01	-0.1534D-02	-0.6400D-02	-0.1667D-01	0.1067D-01	-0.1425D+01	-0.2827D+01	-0.7184D+00	-0.2876D+04
NCROUT04	0.5753D+00	-0.2145D-01	-0.7569D-03	-0.3158D-02	-0.8225D-02	0.5267D-02	-0.7030D+00	-0.1395D+01	-0.3545D+00	-0.1419D+04
GRPOL	-0.6169D+01	0.2300D+00	0.8117D-02	0.3387D-01	0.8820D-01	-0.5648D-01	0.7539D+01	0.1496D+02	0.3802D+01	0.1522D+05
STR813	-0.2755D+02	0.1027D+01	0.3626D-01	0.1513D+00	0.3939D+00	-0.2523D+00	0.3367D+02	0.6682D+02	0.1698D+02	0.6798D+05
STRP	0.1255D+03	-0.4680D+01	-0.1652D+00	-0.6891D+00	-0.1795D+01	0.1149D+01	-0.1534D+03	-0.3044D+03	-0.7736D+02	-0.3097D+06
STRCUQ	0.6856D+02	-0.2556D+01	-0.9021D-01	-0.3764D+00	-0.9802D+00	0.6277D+00	-0.8379D+02	-0.1663D+03	-0.4225D+02	-0.1691D+06
GRVOY	-0.2722D+04	0.1015D+03	0.3581D+01	0.1494D+02	0.3891D+02	-0.2492D+02	0.3326D+04	0.6600D+04	0.1677D+04	0.6715D+07
AUTPKRP	0.1000D+01	-0.3728D-01	-0.1316D-02	-0.5490D-02	-0.1430D-01	0.9155D-02	-0.1222D+01	-0.2425D+01	-0.6163D+00	-0.2467D+04
GRMUMH	-0.2682D+02	0.1000D+01	0.3530D-01	0.1473D+00	0.3835D+00	-0.2456D+00	0.3278D+02	0.6505D+02	0.1653D+02	0.6618D+05
TLK822	-0.7600D+03	0.2833D+02	0.1000D+01	0.4172D+01	0.1087D+02	-0.6958D+01	0.9288D+03	0.1843D+04	0.4683D+03	0.1875D+07
RFK822	-0.1822D+03	0.6791D+01	0.2397D+00	0.1000D+01	0.2604D+01	-0.1668D+01	0.2226D+03	0.4417D+03	0.1123D+03	0.4494D+06
SFK822	-0.6994D+02	0.2608D+01	0.9203D-01	0.3840D+00	0.1000D+01	-0.6404D+00	0.8548D+02	0.1696D+03	0.4310D+02	0.1726D+06
CSFMR822	0.1092D+03	-0.4072D+01	-0.1437D+00	-0.5996D+00	-0.1562D+01	0.1000D+01	-0.1335D+03	-0.2649D+03	-0.6731D+02	-0.2695D+06
LOIIND61	-0.8183D+00	0.3050D-01	0.1077D-02	0.4492D-02	0.1170D-01	-0.7491D-02	0.1000D+01	0.1984D+01	0.5043D+00	0.2019D+04
LOIAS	-0.4124D+00	0.1537D-01	0.5426D-03	0.2264D-02	0.5896D-02	-0.3775D-02	0.5040D+00	0.1000D+01	0.2541D+00	0.1017D+04
MOP62	-0.1623D+01	0.6049D-01	0.2135D-02	0.8908D-02	0.2320D-01	-0.1486D-01	0.1983D+01	0.3935D+01	0.1000D+01	0.4003D+04
PRMVACR1	-0.4053D-03	0.1511D-04	0.5333D-06	0.2225D-05	0.5795D-05	-0.3711D-05	0.4954D-03	0.9829D-03	0.2498D-03	0.1000D+01
KMPARR1	-0.5829D+09	0.2173D+08	0.7670D+06	0.3200D+07	0.8334D+07	-0.5337D+07	0.7124D+09	0.1414D+10	0.3592D+09	0.1438D+13
DICR1	-0.2153D+09	0.8025D+07	0.2833D+06	0.1182D+07	0.3078D+07	-0.1971D+07	0.2631D+09	0.5220D+09	0.1327D+09	0.5311D+12
PGRPKM	0.4517D-02	-0.1684D-03	-0.5943D-05	-0.2479D-04	-0.6457D-04	0.4135D-04	-0.5520D-02	-0.1095D-01	-0.2783D-02	-0.1114D+02
PDRQ	0.3976D+00	-0.1482D-01	-0.5232D-03	-0.2183D-02	-0.5685D-02	0.3641D-02	-0.4860D+00	-0.9643D+00	-0.2450D+00	-0.9810D+03
ENTRNMDC	0.9377D+01	-0.3496D+00	-0.1234D-01	-0.5148D-01	-0.1341D+00	0.8585D-01	-0.1146D+02	-0.2274D+02	-0.5779D+01	-0.2313D+05
PPAS	-0.3664D-01	0.1366D-02	0.4822D-04	0.2012D-03	0.5239D-03	-0.3355D-03	0.4478D-01	0.8886D-01	0.2258D-01	0.9040D+02
SURPOL	-0.5169D+01	0.1927D+00	0.6802D-02	0.2838D-01	0.7390D-01	-0.4733D-01	0.6317D+01	0.1254D+02	0.3186D+01	0.1275D+05
PERPA	0.1582D+01	-0.5896D-01	-0.2081D-02	-0.8682D-02	-0.2261D-01	0.1448D-01	-0.1933D+01	-0.3835D+01	-0.9746D+00	-0.3902D+04
PRCHOM	0.3792D-01	-0.1414D-02	-0.4990D-04	-0.2082D-03	-0.5421D-03	0.3472D-03	-0.4634D-01	-0.9196D-01	-0.2337D-01	-0.9355D+02
PRFEVM	0.6888D-02	-0.2568D-03	-0.9063D-05	-0.3781D-04	-0.9847D-04	0.6306D-04	-0.8417D-02	-0.1670D-01	-0.4245D-02	-0.1699D+02
HEUHM	-0.4210D+02	0.1569D+01	0.5539D-01	0.2311D+00	0.6019D+00	-0.3854D+00	0.5145D+02	0.1021D+03	0.2594D+02	0.1039D+06
PRMED	-0.1177D+01	0.4387D-01	0.1548D-02	0.6460D-02	0.1682D-01	-0.1077D-01	0.1438D+01	0.2853D+01	0.7251D+00	0.2903D+04
PRALT	0.6479D+01	-0.2415D+00	-0.8525D-02	-0.3557D-01	-0.9263D-01	0.5932D-01	-0.7918D+01	-0.1571D+02	-0.3993D+01	-0.1598D+05
PRMTRAR1	-0.2129D-04	0.7938D-06	0.2802D-07	0.1169D-06	0.3044D-06	-0.1950D-06	0.2602D-04	0.5164D-04	0.1312D-04	0.5254D-01
PRMMAGR1	-0.9665D-01	0.3603D-02	0.1272D-03	0.5306D-03	0.1382D-02	-0.8849D-03	0.1181D+00	0.2344D+00	0.5956D-01	0.2385D+03
WD	-0.1238D+02	0.4613D+00	0.1628D-01	0.6794D-01	0.1769D+00	-0.1133D+00	0.1512D+02	0.3001D+02	0.7626D+01	0.3053D+05
SAT	-0.2958D+01	0.1103D+00	0.3893D-02	0.1624D-01	0.4230D-01	-0.2709D-01	0.3615D+01	0.7174D+01	0.1823D+01	0.7299D+04
SHD	-0.5930D+01	0.2211D+00	0.7803D-02	0.3255D-01	0.8478D-01	-0.5429D-01	0.7247D+01	0.1438D+02	0.3654D+01	0.1463D+05
constant	-0.9946D-02	0.3708D-03	0.1309D-04	0.5460D-04	0.1422D-03	-0.9106D-04	0.1215D-01	0.2412D-01	0.6129D-02	0.2454D+02
=====										
X(1)	X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM
=====										
DISCEIN	0.3805D-09	0.1030D-08	-0.4911D+02	-0.5578D+00	-0.2365D-01	0.6053D+01	0.4291D-01	-0.1402D+00	-0.5849D+01	-0.3220D+02
LVCEI	-0.3290D-08	-0.8908D-08	0.4246D+03	0.4823D+01	0.2045D+00	-0.5233D+02	-0.3710D+00	0.1212D+01	0.5057D+02	0.2784D+03

P08PC	-0.8288D-08	-0.2244D-07	0.1070D+04	0.1215D+02	0.5152D+00	-0.1318D+03	-0.9346D+00	0.3055D+01	0.1274D+03	0.7014D+03		
PTDEM	-0.2000D-08	-0.5415D-08	0.2581D+03	0.2932D+01	0.1243D+00	-0.3181D+02	-0.2255D+00	0.7371D+00	0.3074D+02	0.1693D+03		
NCRROUT04	-0.9869D-09	-0.2672D-08	0.1274D+03	0.1447D+01	0.6135D-01	-0.1570D+02	-0.1113D+00	0.3637D+00	0.1517D+02	0.8352D+02		
GRPOL	0.1058D-07	0.2866D-07	-0.1366D+04	-0.1551D+02	-0.6579D+00	0.1684D+03	0.1193D+01	-0.3901D+01	-0.1627D+03	-0.8957D+03		
STR813	0.4727D-07	0.1280D-06	-0.6101D+04	-0.6930D+02	-0.2939D+01	0.7520D+03	0.5331D+01	-0.1742D+02	-0.7266D+03	-0.4001D+04		
STRP	-0.2154D-06	-0.5831D-06	0.2779D+05	0.3157D+03	0.1339D+02	-0.3426D+04	-0.2428D+02	0.7937D+02	0.3310D+04	0.1822D+05		
STRCUQ	-0.1176D-06	-0.3185D-06	0.1518D+05	0.1724D+03	0.7312D+01	-0.1871D+04	-0.1326D+02	0.4335D+02	0.1808D+04	0.9954D+04		
GRVOY	0.4669D-05	0.1264D-04	-0.6026D+06	-0.6845D+04	-0.2903D+03	0.7427D+05	0.5265D+03	-0.1721D+04	-0.7177D+05	-0.3952D+06		
AUTPKRP	-0.1716D-08	-0.4645D-08	0.2214D+03	0.2515D+01	0.1066D+00	-0.2729D+02	-0.1935D+00	0.6323D+00	0.2637D+02	0.1452D+03		
GRMUMH	0.4602D-07	0.1246D-06	-0.5939D+04	-0.6746D+02	-0.2861D+01	0.7320D+03	0.5189D+01	-0.1696D+02	-0.7074D+03	-0.3895D+04		
TLK822	0.1304D-05	0.3530D-05	-0.1683D+06	-0.1911D+04	-0.8105D+02	0.2074D+05	0.1470D+03	-0.4805D+03	-0.2004D+05	-0.1103D+06		
RFK822	0.3125D-06	0.8462D-06	-0.4033D+05	-0.4581D+03	-0.1943D+02	0.4971D+04	0.3524D+02	-0.1152D+03	-0.4804D+04	-0.2645D+05		
SFK822	0.1200D-06	0.3249D-06	-0.1549D+05	-0.1759D+03	-0.7459D+01	0.1909D+04	0.1353D+02	-0.4423D+02	-0.1845D+04	-0.1016D+05		
CSFMR822	-0.1874D-06	-0.5074D-06	0.2418D+05	0.2747D+03	0.1165D+02	-0.2981D+04	-0.2113D+02	0.6906D+02	0.2880D+04	0.1586D+05		
LOIIND61	0.1404D-08	0.3801D-08	-0.1812D+03	-0.2058D+01	-0.8726D-01	0.2233D+02	0.1583D+00	-0.5174D+00	-0.2158D+02	-0.1188D+03		
LOIAS	0.7075D-09	0.1916D-08	-0.9130D+02	-0.1037D+01	-0.4398D-01	0.1125D+02	0.7978D-01	-0.2607D+00	-0.1087D+02	-0.5987D+02		
MOP62	0.2784D-08	0.7538D-08	-0.3593D+03	-0.4081D+01	-0.1731D+00	0.4428D+02	0.3139D+00	-0.1026D+01	-0.4279D+02	-0.2356D+03		
PRMVACR1	0.6954D-12	0.1883D-11	-0.8974D-01	-0.1019D-02	-0.4323D-04	0.1106D-01	0.7841D-04	-0.2563D-03	-0.1069D-01	-0.5885D-01		
KMPARR1	0.1000D+01	0.2708D+01	-0.1291D+12	-0.1466D+10	-0.6216D+08	0.1591D+11	0.1128D+09	-0.3686D+09	-0.1537D+11	-0.8463D+11		
DICR1	0.3693D+00	0.1000D+01	-0.4766D+11	-0.5414D+09	-0.2296D+08	0.5875D+10	0.4165D+08	-0.1361D+09	-0.5677D+10	-0.3125D+11		
PGRPKM	-0.7748D-11	-0.2098D-10	0.1000D+01	0.1136D-01	0.4817D-03	-0.1233D+00	-0.8737D-03	0.2856D-02	0.1191D+00	0.6557D+00		
PDRQ	-0.6822D-09	-0.1847D-08	0.8804D+02	0.1000D+01	0.4241D-01	-0.1085D+02	-0.7692D-01	0.2514D+00	0.1049D+02	0.5773D+02		
ENTRNMDC	-0.1609D-07	-0.4356D-07	0.2076D+04	0.2358D+02	0.1000D+01	-0.2559D+03	-0.1814D+01	0.5929D+01	0.2473D+03	0.1361D+04		
FPAS	0.6286D-10	0.1702D-09	-0.8113D+01	-0.9215D-01	-0.3908D-02	0.1000D+01	0.7089D-02	-0.2317D-01	-0.9663D+00	-0.5320D+01		
SURPOL	0.8868D-08	0.2401D-07	-0.1144D+04	-0.1300D+02	-0.5513D+00	0.1411D+03	0.1000D+01	-0.3268D+01	-0.1363D+03	-0.7505D+03		
PERPA	-0.2713D-08	-0.7347D-08	0.3502D+03	0.3977D+01	0.1687D+00	-0.4316D+02	-0.3060D+00	0.1000D+01	0.4171D+02	0.2296D+03		
PRCHOM	-0.6505D-10	-0.1762D-09	0.8396D+01	0.9536D-01	0.4044D-02	-0.1035D+01	-0.7336D-02	0.2398D-01	0.1000D+01	0.5506D+01		
PRFEVM	-0.1182D-10	-0.3200D-10	0.1525D+01	0.1732D-01	0.7345D-03	-0.1880D+00	-0.1332D-02	0.4355D-02	0.1816D+00	0.1000D+01		
HEUHM	0.7222D-07	0.1956D-06	-0.9321D+04	-0.1059D+03	-0.4489D+01	0.1149D+04	0.8144D+01	-0.2662D+02	-0.1110D+04	-0.6112D+04		
PRMED	0.2019D-08	0.5466D-08	-0.2605D+03	-0.2959D+01	-0.1255D+00	0.3211D+02	0.2276D+00	-0.7440D+00	-0.3103D+02	-0.1708D+03		
PRALT	-0.1112D-07	-0.3010D-07	0.1435D+04	0.1629D+02	0.6910D+00	-0.1768D+03	-0.1253D+01	0.4097D+01	0.1709D+03	0.9407D+03		
PRMTRAR1	0.3653D-13	0.9892D-13	-0.4715D-02	-0.5355D-04	-0.2271D-05	0.5811D-03	0.4119D-05	-0.1346D-04	-0.5615D-03	-0.3092D-02		
PRMMAGR1	0.1658D-09	0.4490D-09	-0.2140D+02	-0.2431D+00	-0.1031D-01	0.2638D+01	0.1870D-01	-0.6111D-01	-0.2549D+01	-0.1403D+02		
WD	0.2123D-07	0.5749D-07	-0.2740D+04	-0.3112D+02	-0.1320D+01	0.3377D+03	0.2394D+01	-0.7825D+01	-0.3263D+03	-0.1797D+04		
SAT	0.5075D-08	0.1374D-07	-0.6550D+03	-0.7440D+01	-0.3155D+00	0.8073D+02	0.5723D+00	-0.1871D+01	-0.7802D+02	-0.4295D+03		
SHD	0.1017D-07	0.2755D-07	-0.1313D+04	-0.1491D+02	-0.6324D+00	0.1618D+03	0.1147D+01	-0.3749D+01	-0.1564D+03	-0.8609D+03		
constant	0.1706D-10	0.4620D-10	-0.2202D+01	-0.2501D-01	-0.1061D-02	0.2714D+00	0.1924D-02	-0.6289D-02	-0.2623D+00	-0.1444D+01		
=====												
X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant			
=====												
X(l)												
=====												
DISCEIN	0.5269D-02	0.1885D+00	-0.3423D-01	0.1042D+05	0.2295D+01	0.1792D-01	0.7497D-01	0.3740D-01	0.2230D+02			
LVCEI	-0.4555D-01	-0.1630D+01	0.2960D+00	-0.9006D+05	-0.1984D+02	-0.1550D+00	-0.6482D+00	-0.3234D+00	-0.1928D+03			
P08PC	-0.1148D+00	-0.4106D+01	0.7456D+00	-0.2269D+06	-0.4998D+02	-0.3904D+00	-0.1633D+01	-0.8147D+00	-0.4857D+03			
PTDEM	-0.2769D-01	-0.9907D+00	0.1799D+00	-0.5475D+05	-0.1206D+02	-0.9420D-01	-0.3941D+00	-0.1966D+00	-0.1172D+03			
NCRROUT04	-0.1367D-01	-0.4889D+00	0.8879D-01	-0.2702D+05	-0.5952D+01	-0.4649D-01	-0.1945D+00	-0.9701D-01	-0.5784D+02			
GRPOL	0.1465D+00	0.5243D+01	-0.9522D+00	0.2897D+06	0.6383D+02	0.4985D+00	0.2085D+01	0.1040D+01	0.6203D+03			
STR813	0.6545D+00	0.2342D+02	-0.4253D+01	0.1294D+07	0.2851D+03	0.2227D+01	0.9314D+01	0.4647D+01	0.2770D+04			
STRP	-0.2982D+01	-0.1067D+03	0.1937D+02	-0.5895D+07	-0.1299D+04	-0.1014D+02	-0.4243D+02	-0.2117D+02	-0.1262D+05			
STRCUQ	-0.1629D+01	-0.5827D+02	0.1058D+02	-0.3220D+07	-0.7093D+03	-0.5540D+01	-0.2317D+02	-0.1156D+02	-0.6893D+04			
GRVOY	0.6465D+02	0.2313D+04	-0.4201D+03	0.1278D+09	0.2816D+05	0.2199D+03	0.9200D+03	0.4590D+03	0.2736D+06			
AUTPKRP	-0.2375D-01	-0.8498D+00	0.1543D+00	-0.4696D+05	-0.1035D+02	-0.8081D-01	-0.3380D+00	-0.1686D+00	-0.1005D+03			

GRMUMH	0.6372D+00	0.2280D+02	-0.4140D+01	0.1260D+07	0.2775D+03	0.2168D+01	0.9067D+01	0.4524D+01	0.2697D+04
TLK822	0.1805D+02	0.6459D+03	-0.1173D+03	0.3569D+08	0.7863D+04	0.6141D+02	0.2569D+03	0.1282D+03	0.7641D+05
RFK822	0.4327D+01	0.1548D+03	-0.2811D+02	0.8554D+07	0.1885D+04	0.1472D+02	0.6157D+02	0.3072D+02	0.1832D+05
SFK822	0.1662D+01	0.5944D+02	-0.1080D+02	0.3285D+07	0.7237D+03	0.5652D+01	0.2364D+02	0.1180D+02	0.7033D+04
CSFMR822	-0.2595D+01	-0.9282D+02	0.1686D+02	-0.5129D+07	-0.1130D+04	-0.8826D+01	-0.3692D+02	-0.1842D+02	-0.1098D+05
LOIIND61	0.1944D-01	0.6954D+00	-0.1263D+00	0.3843D+05	0.8466D+01	0.6612D-01	0.2766D+00	0.1380D+00	0.8227D+02
LOIAS	0.9796D-02	0.3505D+00	-0.6365D-01	0.1937D+05	0.4267D+01	0.3332D-01	0.1394D+00	0.6954D-01	0.4146D+02
MOP62	0.3855D-01	0.1379D+01	-0.2505D+00	0.7620D+05	0.1679D+02	0.1311D+00	0.5485D+00	0.2736D+00	0.1632D+03
PRMVACR1	0.9628D-05	0.3445D-03	-0.6256D-04	0.1903D+02	0.4194D-02	0.3275D-04	0.1370D-03	0.6835D-04	0.4075D-01
KMPARR1	0.1385D+08	0.4954D+09	-0.8997D+08	0.2737D+14	0.6031D+10	0.4710D+08	0.1970D+09	0.9830D+08	0.5861D+11
DICR1	0.5114D+07	0.1829D+09	-0.3323D+08	0.1011D+14	0.2227D+10	0.1740D+08	0.7277D+08	0.3630D+08	0.2164D+11
PGRPKM	-0.1073D-03	-0.3838D-02	0.6971D-03	-0.2121D+03	-0.4673D-01	-0.3650D-03	-0.1527D-02	-0.7617D-03	-0.4541D+00
PDRQ	-0.9446D-02	-0.3379D+00	0.6137D-01	-0.1867D+05	-0.4114D+01	-0.3213D-01	-0.1344D+00	-0.6706D-01	-0.3998D+02
ENTRNMDC	-0.2227D+00	-0.7969D+01	0.1447D+01	-0.4403D+06	-0.9701D+02	-0.7577D+00	-0.3170D+01	-0.1581D+01	-0.9428D+03
PPAS	0.8704D-03	0.3114D-01	-0.5656D-02	0.1721D+04	0.3791D+00	0.2961D-02	0.1239D-01	0.6179D-02	0.3684D+01
SURPOL	0.1228D+00	0.4393D+01	-0.7978D+00	0.2428D+06	0.5348D+02	0.4177D+00	0.1747D+01	0.8717D+00	0.5197D+03
PERPA	-0.3757D-01	-0.1344D+01	0.2441D+00	-0.7427D+05	-0.1636D+02	-0.1278D+00	-0.5346D+00	-0.2667D+00	-0.1590D+03
PRCHOM	-0.9008D-03	-0.3223D-01	0.5853D-02	-0.1781D+04	-0.3923D+00	-0.3064D-02	-0.1282D-01	-0.6395D-02	-0.3813D+01
PRFEVM	-0.1636D-03	-0.5853D-02	0.1063D-02	-0.3235D+03	-0.7126D-01	-0.5566D-03	-0.2328D-02	-0.1162D-02	-0.6925D+00
HEUHM	0.1000D+01	0.3578D+02	-0.6497D+01	0.1977D+07	0.4355D+03	0.3402D+01	0.1423D+02	0.7099D+01	0.4233D+04
PRMED	0.2795D-01	0.1000D+01	-0.1816D+00	0.5526D+05	0.1217D+02	0.9508D-01	0.3977D+00	0.1984D+00	0.1183D+03
PRALT	-0.1539D+00	-0.5506D+01	0.1000D+01	-0.3043D+06	-0.6703D+02	-0.5236D+00	-0.2190D+01	-0.1093D+01	-0.6514D+03
PRMTRAR1	0.5058D-06	0.1810D-04	-0.3287D-05	0.1000D+01	0.2203D-03	0.1721D-05	0.7198D-05	0.3591D-05	0.2141D-02
PRMMAGR1	0.2296D-02	0.8214D-01	-0.1492D-01	0.4539D+04	0.1000D+01	0.7810D-02	0.3267D-01	0.1630D-01	0.9718D+01
WD	0.2940D+00	0.1052D+02	-0.1910D+01	0.5812D+06	0.1280D+03	0.1000D+01	0.4183D+01	0.2087D+01	0.1244D+04
SAT	0.7028D-01	0.2514D+01	-0.4566D+00	0.1389D+06	0.3061D+02	0.2391D+00	0.1000D+01	0.4989D+00	0.2975D+03
SHD	0.1409D+00	0.5039D+01	-0.9152D+00	0.2785D+06	0.6135D+02	0.4792D+00	0.2004D+01	0.1000D+01	0.5962D+03
constant	0.2363D-03	0.8452D-02	-0.1535D-02	0.4671D+03	0.1029D+00	0.8037D-03	0.3362D-02	0.1677D-02	0.1000D+01

Log-likelihood

```

- initial value :      -2139.2482
- final value   :      -1962.3306
- ratio test    :           353.8350

```

```

Pearson-r2      :           0.9639
Pearson-r2 bar  :           0.9566
Pseudo-(1)-r2   :           0.9418
Pseudo-(1)-r2 bar :          0.9301
Std-error of (w) :           0.6022

```

```

Number of observations   first-last obs.no.
- sample      :      313          1 -      313
- estimation   :      300         14 -      313

```

CPU TIME: 2.45 sec

Output file 5: MO_bc1au.txt

```

&CARD1
NOBS   =      313,
NC     =       14,
NF     =      313,
NFP    =      313,
NOBEL  =       12,
NM     =        0,

```

```

NSTEP      =          500,
EPSI       = 1.0000000000000000E-007,
WGHT       = 1.0000000000000000
/
&CARD2
NB         =          38,
NRO        =           9,
NSL        =          20,
NGF        =           0,
MAXF       =           0,
NGV        =           1,
MAXV       =          18,
NLY        =           2,
NDM        =          -1,
NLE        =           0,
ND         =           0
/
&CARD3
NCOR       =           0,
NRES       =           0,
NPW        =           0,
NGUVW     =           0,
NPDQL     =           0,
NCOV      =           0,
NEY       =           0,
VARNAME = mo_bclau ,
NVARIANT  =          30
/

```

Working space used : 32556 out of 500000

```

autocorrelation of orders:      2      3      4      5
      7      8      11      12      13
rho initial values: 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000

```

group (x) without box-cox transformation
variable no.

```

 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

```

group 1 (estimated lambda(x))
initial value: 1.0000000000000000

variable no.
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

lambda(y) is set equal to lambda(x) of group no. 1
lambda(y) initial value: 1.0000000000000000
upper limit for y 0.0000000000000000E+000

no.	variable	minimum	mean	maximum	null obs.
	MO	0.21000D+02	0.10524D+03	0.22900D+03	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
22	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
23	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
24	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	PFAS	0.10000D+00	0.15846D+00	0.26970D+00	0
27	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
28	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
29	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
30	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
31	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
32	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
33	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
34	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
35	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
36	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
37	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
38	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0

39 constant 0.10000D+01 0.10000D+01 0.10000D+01 0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y (sample)	E (y)	y (sample)	E (y)
								SIGMA (y)		SIGMA (y)
								GAMMA (y)		GAMMA (y)
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	-0.2297892D+02	0.4581333D+00	0.2672168D+02	-0.8599	-0.0983	-0.0983	-0.2909	-0.2903
								0.0000		0.0000
								-0.3090		-1.1575
2 LVCEI	NL	0	-0.4457892D+01	0.2558333D+00	0.7483177D+01	-0.5957	-0.0106	-0.0106	-0.0564	-0.0563
								0.0000		0.0000
								-0.0335		-0.2246
3 P08PC	NL	0	-0.7038786D+01	0.5233333D+00	0.7825612D+01	-0.8995	-0.0344	-0.0344	-0.0891	-0.0889
								0.0000		0.0000
								-0.1081		-0.3546
4 PTDEM	NL	0	-0.5612845D+01	0.3933333D+00	0.8955580D+01	-0.6267	-0.0206	-0.0206	-0.0710	-0.0709
								0.0000		0.0000
								-0.0648		-0.2827
5 NCR0UT04	NL	0	-0.2585102D+02	0.3000000D-01	0.1154167D+02	-2.2398	-0.0072	-0.0072	-0.2454	-0.2449
								0.0000		0.0000
								-0.0228		-0.9766
6 GRPOL	NL	0	-0.9066384D+01	0.1055554D-01	0.7648718D+01	-1.1853	-0.0009	-0.0009	0.0000	0.0000
								0.0000		0.0000
								-0.0028		0.0000
7 STR813	NL	0	0.8921504D+00	0.4733333D+00	0.4530934D+00	1.9690	0.0039	0.0039	0.0122	0.0122
								0.0000		0.0000
								0.0124		0.0487
8 STRP	NL	0	0.3326540D+00	0.1266667D+00	0.8430284D+00	0.3946	0.0004	0.0004	0.0028	0.0028
								0.0000		0.0000
								0.0012		0.0112
9 STRCUQ	NL	0	-0.3533674D+00	0.1300000D+01	0.2239144D+00	-1.5781	-0.0043	-0.0043	-0.0056	-0.0056
								0.0000		0.0000
								-0.0135		-0.0222
10 GRVOY	NL	0	-0.3408696D+00	0.7900000D+00	0.2591459D+00	-1.3154	-0.0025	-0.0025	0.0000	0.0000
								0.0000		0.0000
								-0.0079		0.0000
11 AUTPKRP	NL	0	-0.2426613D+02	0.3251368D+00	0.5864232D+02	-0.4138	-0.0737	-0.0737	-0.1578	-0.1575
								0.0000		0.0000
								-0.2316		-0.6280
12 GRMUMH	NL	0	-0.1229795D+00	0.1716667D+00	0.6017780D+00	-0.2044	-0.0002	-0.0002	0.0000	0.0000
								0.0000		0.0000
								-0.0006		0.0000
13 TLK822	NL	0	-0.8782573D-01	0.1928373D+03	0.1458577D-01	-6.0213	-0.1581	-0.1581	-0.2096	-0.2091
								0.0000		0.0000
								-0.4972		-0.8339
14 RFK822	NL	0	0.1306305D+01	0.7708521D+00	0.2697195D+01	0.4843	0.0094	0.0094	0.0125	0.0125
								0.0000		0.0000
								0.0296		0.0498
15 SFK822	NL	0	0.3194661D+00	0.2509268D+01	0.5768682D+00	0.5538	0.0075	0.0075	0.0066	0.0066
								0.0000		0.0000
								0.0235		0.0263
16 CSFMR822	NL	0	-0.3495203D+00	0.2353299D+02	0.7719679D-01	-4.5277	-0.0768	-0.0768	-0.0885	-0.0883
								0.0000		0.0000
								-0.2415		-0.3523
17 LOIIND61	NL	0	0.1768981D+01	0.8600000D+00	0.7453465D+01	0.2373	0.0142	0.0142	0.0224	0.0223
								0.0000		0.0000
								0.0447		0.0891
18 LOIAS	NL	0	-0.4963927D+00	0.1933333D+00	0.8161507D+01	-0.0608	-0.0009	-0.0009	-0.0063	-0.0063
								0.0000		0.0000
								-0.0028		-0.0250
19 MOP62	NL	0	0.4168975D+02	0.8200000D+00	0.7830157D+01	5.3243	0.3192	0.3192	0.5277	0.5266
								0.0000		0.0000
								1.0036		2.1000
20 PRMVACR1	NL	0	0.2209211D+06	0.4349227D-04	0.4686243D+05	4.7142	0.0897	0.0897	0.1378	0.1375
								0.0000		0.0000
								0.2821		0.5482
21 KMPARR1	EL	1	0.6476496D-07	0.2620907D+10	0.1870342D-07	3.4627	1.5848	1.5847	2.5257	2.5203
								0.0000		0.0000
								4.9830		10.0506
22 DICR1	EL	1	-0.1085040D-06	0.6151215D+08	0.1233620D-06	-0.8796	-0.0623	-0.0623	-0.1457	-0.1453
								0.0000		0.0000
								-0.1959		-0.5796
23 PGRPKM	EL	1	-0.9326938D+03	0.1602677D-01	0.1771434D+04	-0.5265	-0.1396	-0.1396	-0.3069	-0.3063
								0.0000		0.0000
								-0.4388		-1.2213
24 PDRQ	EL	1	-0.1980553D+04	0.9268908D-01	0.4449587D+03	-4.4511	-1.7140	-1.7139	-3.7607	-3.7527
								0.0000		-0.0001
								-5.3891		-14.9653
25 ENTRNMDC	EL	1	-0.1236423D+01	0.6295400D+02	0.5783778D+00	-2.1377	-0.7267	-0.7267	-1.2622	-1.2595
								0.0000		0.0000
								-2.2850		-5.0227
26 PPAS	EL	1	0.1219651D+04	0.1609208D+00	0.3860381D+03	3.1594	1.8324	1.8324	4.0209	4.0123
								0.0000		0.0001
								5.7617		16.0006
27 SURPOL	EL	1	-0.6353399D+01	0.8257199D+01	0.2021739D+01	-3.1425	-0.4898	-0.4898	-0.6194	-0.6181
								0.0000		0.0000
								-1.5401		-2.4647
28 PERPA	EL	1	0.5297449D+02	0.1297782D+01	0.3253707D+02	1.6281	0.6419	0.6418	0.9742	0.9722
								0.0000		0.0000
								2.0182		3.8769
29 PRCHOM	EL	1	-0.1087311D+02	0.3883502D-01	0.1961858D+03	-0.0554	-0.0039	-0.0039	-0.0079	-0.0079
								0.0000		0.0000
								-0.0124		-0.0314
30 PRFEVM	EL	1	-0.4268490D+04	0.1139801D-01	0.2720412D+04	-1.5691	-0.4542	-0.4542	-0.5652	-0.5640
								0.0000		0.0000
								-1.4283		-2.2492

31	HEUHM	EL	1	-0.1746237D+01	0.4031700D+02	0.2047909D+01	-0.8527	-0.6573	-0.6573	-0.8370	-0.8352
									0.0000		0.0000
									-2.0668		-3.3308
32	PRMED	EL	1	0.6155166D+01	0.3003970D+01	0.4732506D+01	1.3006	0.1726	0.1726	0.2884	0.2878
									0.0000		0.0000
									0.5428		1.1476
33	PRALT	EL	1	-0.1898369D+02	0.7172662D+00	0.1764661D+02	-1.0758	-0.1271	-0.1271	-0.1850	-0.1846
									0.0000		0.0000
									-0.3997		-0.7362
34	PRMTRARI	EL	1	0.2159339D+07	0.5226830D-04	0.7177539D+06	3.0085	1.0538	1.0537	1.1692	1.1668
									0.0000		0.0000
									3.3133		4.6529
35	PRMMAGRI	EL	1	0.2601341D+03	0.1441229D+00	0.1445068D+03	1.8002	0.3500	0.3500	0.5009	0.4998
									0.0000		0.0000
									1.1006		1.9931
36	WD	EL	1	-0.1608360D+01	0.2086000D+02	0.1709321D+01	-0.9409	-0.3132	-0.3132	-0.4275	-0.4266
									0.0000		0.0000
									-0.9849		-1.7013
37	SAT	EL	1	0.2346698D+00	0.4346667D+01	0.2747373D+01	0.0854	0.0095	0.0095	0.0129	0.0128
									0.0000		0.0000
									0.0299		0.0512
38	SHD	EL	1	-0.4140134D+01	0.5226667D+01	0.2023252D+01	-2.0463	-0.2020	-0.2020	-0.2664	-0.2658
									0.0000		0.0000
									-0.6352		-1.0601
39	constant	NL	0	0.2153682D+07	0.1000000D+01	0.7181694D+06	2.9988	20107.8214	20106.8316	27261.7940	27203.6828
									0.5133		0.4590
									63224.0936		108485.1903

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	-0.2297892D+02	-0.2297890D+02	-0.8790609D-04	0.1071611D-03
2 LVCEI	-0.4457892D+01	-0.4457890D+01	-0.1705372D-04	0.2078918D-04
3 P08PC	-0.7038786D+01	-0.7038782D+01	-0.2692695D-04	0.3282506D-04
4 PTDEM	-0.5612845D+01	-0.5612841D+01	-0.2147200D-04	0.2617524D-04
5 NCR0UT04	-0.2585102D+02	-0.2585101D+02	-0.9889336D-04	0.1205551D-03
6 GRPOL	-0.9066384D+01	-0.9066378D+01	-0.3468355D-04	0.4228067D-04
7 STR813	0.8921504D+00	0.8921499D+00	0.3412931D-05	-0.4160503D-05
8 STRP	0.3326540D+00	0.3326538D+00	0.1272572D-05	-0.1551317D-05
9 STRCUQ	-0.3533674D+00	-0.3533672D+00	-0.1351811D-05	0.1647913D-05
10 GRVOY	-0.3408696D+00	-0.3408694D+00	-0.1304000D-05	0.1589630D-05
11 AUTPKRP	-0.2426613D+02	-0.2426612D+02	-0.9283035D-04	0.1131640D-03
12 GRMUMH	-0.1229795D+00	-0.1229795D+00	-0.4704595D-06	0.5735094D-06
13 TLK822	-0.8782573D-01	-0.8782568D-01	-0.3359783D-06	0.4095713D-06
14 RFK822	0.1306305D+01	0.1306304D+01	0.4997284D-05	-0.6091894D-05
15 SFK822	0.3194661D+00	0.3194659D+00	0.1222121D-05	-0.1489816D-05
16 CSFMR822	-0.3495203D+00	-0.3495201D+00	-0.1337094D-05	0.1629972D-05
17 LOIIND61	0.1768981D+01	0.1768980D+01	0.6767257D-05	-0.8249564D-05
18 LOIAS	-0.4963927D+00	-0.4963924D+00	-0.1898956D-05	0.2314905D-05
19 MOP62	0.4168975D+02	0.4168973D+02	0.1594846D-03	-0.1944182D-03
20 PRMVACRI	0.2209211D+06	0.2209209D+06	0.8451359D+00	-0.1030255D+01
21 KMPARR1	0.6476496D-07	0.6476493D-07	0.2477591D-12	-0.3020285D-12
22 DICRI	-0.1085040D-06	-0.1085040D-06	-0.4150834D-12	0.5060036D-12
23 PGRPKM	-0.9326938D+03	-0.9326932D+03	-0.3568030D-02	0.4349575D-02
24 PDRQ	-0.1980553D+04	-0.1980552D+04	-0.7576629D-02	0.9236220D-02
25 ENTRNMDC	-0.1236423D+01	-0.1236423D+01	-0.4729951D-05	0.5766004D-05
26 PPAS	0.1219651D+04	0.1219651D+04	0.4665789D-02	-0.5687788D-02
27 SURPOL	-0.6353399D+01	-0.6353395D+01	-0.2430500D-04	0.2962878D-04
28 PERPA	0.5297449D+02	0.5297446D+02	0.2026545D-03	-0.2470441D-03
29 PRCHOM	-0.1087311D+02	-0.1087310D+02	-0.4159519D-04	0.5070623D-04
30 PRFEVM	-0.4268490D+04	-0.4268488D+04	-0.1632916D-01	0.1990591D-01

```

31 HEUHM      -0.1746237D+01 -0.1746236D+01 -0.6680248D-05  0.8143496D-05
32 PRMED      0.6155166D+01  0.6155162D+01  0.2354665D-04 -0.2870433D-04
33 PRALT      -0.1898369D+02 -0.1898368D+02 -0.7262232D-04  0.8852957D-04
34 PRMTRARI   0.2159339D+07  0.2159338D+07  0.8260576D+01 -0.1006998D+02
35 PRMMAGRI   0.2601341D+03  0.2601340D+03  0.9951459D-03 -0.1213124D-02
36 WD         -0.1608360D+01 -0.1608359D+01 -0.6152798D-05  0.7500512D-05
37 SAT        0.2346698D+00  0.2346697D+00  0.8977321D-06 -0.1094372D-05
38 SHD        -0.4140134D+01 -0.4140131D+01 -0.1583813D-04  0.1930732D-04
39 constant   0.2153682D+07  0.2153680D+07  0.8238933D+01 -0.1004360D+02

```

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

```

=====
row / col      E(y)          SIGMA(y)      GAMMA(y)
=====
E(y)           0.1000D+01  0.2614D+06 -0.2144D+06
SIGMA(y)       0.3826D-05  0.1000D+01 -0.8203D+00
GAMMA(y)      -0.4663D-05 -0.1219D+01  0.1000D+01

```

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

```

=====
row / col      E(y)          SIGMA(y)      GAMMA(y)
=====
E(y)           0.1000D+01  0.3917D+05  0.3180D+00
SIGMA(y)       0.2553D-04  0.1000D+01  0.8118D-05
GAMMA(y)       0.3144D+01  0.1232D+06  0.1000D+01

```

MRS of X(l) with respect to X(k) at the sample means

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=====
X(l)  X(k) DISCEIN  LVCEI  P08PC  PTDEM  NCROUT04  GRPOL  STR813  STRP  STRCUQ  GRVOY
=====
DISCEIN  0.1000D+01  0.1940D+00  0.3063D+00  0.2443D+00  0.1125D+01  0.3946D+00 -0.3882D-01 -0.1448D-01  0.1538D-01  0.1483D-01
LVCEI    0.5155D+01  0.1000D+01  0.1579D+01  0.1259D+01  0.5799D+01  0.2034D+01 -0.2001D+00 -0.7462D-01  0.7927D-01  0.7646D-01
P08PC    0.3265D+01  0.6333D+00  0.1000D+01  0.7974D+00  0.3673D+01  0.1288D+01 -0.1267D+00 -0.4726D-01  0.5020D-01  0.4843D-01
PTDEM    0.4094D+01  0.7942D+00  0.1254D+01  0.1000D+01  0.4606D+01  0.1615D+01 -0.1589D+00 -0.5927D-01  0.6296D-01  0.6073D-01
NCROUT04 0.8889D+00  0.1724D+00  0.2723D+00  0.2171D+00  0.1000D+01  0.3507D+00 -0.3451D-01 -0.1287D-01  0.1367D-01  0.1319D-01
GRPOL    0.2535D+01  0.4917D+00  0.7764D+00  0.6191D+00  0.2851D+01  0.1000D+01 -0.9840D-01 -0.3669D-01  0.3898D-01  0.3760D-01
STR813   -0.2576D+02 -0.4997D+01 -0.7890D+01 -0.6291D+01 -0.2898D+02 -0.1016D+02  0.1000D+01  0.3729D+00 -0.3961D+00 -0.3821D+00
STRP     -0.6908D+02 -0.1340D+02 -0.2116D+02 -0.1687D+02 -0.7771D+02 -0.2725D+02  0.2682D+01  0.1000D+01 -0.1062D+01 -0.1025D+01
STRCUQ   0.6503D+02  0.1262D+02  0.1992D+02  0.1588D+02  0.7316D+02  0.2566D+02 -0.2525D+01 -0.9414D+00  0.1000D+01  0.9646D+00
GRVOY    0.6741D+02  0.1308D+02  0.2065D+02  0.1647D+02  0.7584D+02  0.2660D+02 -0.2617D+01 -0.9759D+00  0.1037D+01  0.1000D+01
AUTPKRP  0.9470D+00  0.1837D+00  0.2901D+00  0.2313D+00  0.1065D+01  0.3736D+00 -0.3677D-01 -0.1371D-01  0.1456D-01  0.1405D-01
GRMUMH   0.1869D+03  0.3625D+02  0.5724D+02  0.4564D+02  0.2102D+03  0.7372D+02 -0.7254D+01 -0.2705D+01  0.2873D+01  0.2772D+01
TLK822   0.2616D+03  0.5076D+02  0.8014D+02  0.6391D+02  0.2943D+03  0.1032D+03 -0.1016D+02 -0.3788D+01  0.4024D+01  0.3881D+01
RFK822   -0.1759D+02 -0.3413D+01 -0.5388D+01 -0.4297D+01 -0.1979D+02 -0.6940D+01  0.6830D+00  0.2547D+00 -0.2705D+00 -0.2609D+00
SFK822   -0.7193D+02 -0.1395D+02 -0.2203D+02 -0.1757D+02 -0.8092D+02 -0.2838D+02  0.2793D+01  0.1041D+01 -0.1106D+01 -0.1067D+01
CSFMR822 0.6574D+02  0.1275D+02  0.2014D+02  0.1606D+02  0.7396D+02  0.2594D+02 -0.2552D+01 -0.9517D+00  0.1011D+01  0.9752D+00
LOIIND61 -0.1299D+02 -0.2520D+01 -0.3979D+01 -0.3173D+01 -0.1461D+02 -0.5125D+01  0.5043D+00  0.1880D+00 -0.1998D+00 -0.1927D+00
LOIAS    0.4629D+02  0.8981D+01  0.1418D+02  0.1131D+02  0.5208D+02  0.1826D+02 -0.1797D+01 -0.6701D+00  0.7119D+00  0.6867D+00
MOP62    -0.5512D+00 -0.1069D+00 -0.1688D+00 -0.1346D+00 -0.6201D+00 -0.2175D+00  0.2140D-01  0.7979D-02 -0.8476D-02 -0.8176D-02
PRMVACR1 -0.1040D-03 -0.2018D-04 -0.3186D-04 -0.2541D-04 -0.1170D-03 -0.4104D-04  0.4038D-05  0.1506D-05 -0.1600D-05 -0.1543D-05
KMPARR1  -0.3548D+09 -0.6883D+08 -0.1087D+09 -0.8666D+08 -0.3992D+09 -0.1400D+09  0.1378D+08  0.5136D+07 -0.5456D+07 -0.5263D+07
DICR1    0.2118D+09  0.4109D+08  0.6487D+08  0.5173D+08  0.2382D+09  0.8356D+08 -0.8222D+07 -0.3066D+07  0.3257D+07  0.3142D+07
PGRPKM   0.2464D-01  0.4780D-02  0.7547D-02  0.6018D-02  0.2772D-01  0.9721D-02 -0.9565D-03 -0.3567D-03  0.3789D-03  0.3655D-03
PDRQ     0.1160D-01  0.2251D-02  0.3554D-02  0.2834D-02  0.1305D-01  0.4578D-02 -0.4505D-03 -0.1680D-03  0.1784D-03  0.1721D-03

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ENTRNMDC	0.1858D+02	0.3605D+01	0.5693D+01	0.4540D+01	0.2091D+02	0.7333D+01	-0.7216D+00	-0.2690D+00	0.2858D+00	0.2757D+00
PPAS	-0.1884D-01	-0.3655D-02	-0.5771D-02	-0.4602D-02	-0.2120D-01	-0.7434D-02	0.7315D-03	0.2727D-03	-0.2897D-03	-0.2795D-03
SURPOL	0.3617D+01	0.7017D+00	0.1108D+01	0.8834D+00	0.4069D+01	0.1427D+01	-0.1404D+00	-0.5236D-01	0.5562D-01	0.5365D-01
PERPA	-0.4338D+00	-0.8415D-01	-0.1329D+00	-0.1060D+00	-0.4880D+00	-0.1711D+00	0.1684D-01	0.6280D-02	-0.6671D-02	-0.6435D-02
PRCHOM	0.2113D+01	0.4100D+00	0.6474D+00	0.5162D+00	0.2378D+01	0.8338D+00	-0.8205D-01	-0.3059D-01	0.3250D-01	0.3135D-01
PRFEVM	0.5383D-02	0.1044D-02	0.1649D-02	0.1315D-02	0.6056D-02	0.2124D-02	-0.2090D-03	-0.7793D-04	0.8279D-04	0.7986D-04
HEUHM	0.1316D+02	0.2553D+01	0.4031D+01	0.3214D+01	0.1480D+02	0.5192D+01	-0.5109D+00	-0.1905D+00	0.2024D+00	0.1952D+00
PRMED	-0.3733D+01	-0.7243D+00	-0.1144D+01	-0.9119D+00	-0.4200D+01	-0.1473D+01	0.1449D+00	0.5404D-01	-0.5741D-01	-0.5538D-01
PRALT	0.1210D+01	0.2348D+00	0.3708D+00	0.2957D+00	0.1362D+01	0.4776D+00	-0.4700D-01	-0.1752D-01	0.1861D-01	0.1796D-01
PRMTRAR1	-0.1064D-04	-0.2064D-05	-0.3260D-05	-0.2599D-05	-0.1197D-04	-0.4199D-05	0.4132D-06	0.1541D-06	-0.1636D-06	-0.1579D-06
PRMMAGR1	-0.8833D-01	-0.1714D-01	-0.2706D-01	-0.2158D-01	-0.9938D-01	-0.3485D-01	0.3430D-02	0.1279D-02	-0.1358D-02	-0.1310D-02
WD	0.1429D+02	0.2772D+01	0.4376D+01	0.3490D+01	0.1607D+02	0.5637D+01	-0.5547D+00	-0.2068D+00	0.2197D+00	0.2119D+00
SAT	-0.9792D+02	-0.1900D+02	-0.2999D+02	-0.2392D+02	-0.1102D+03	-0.3863D+02	0.3802D+01	0.1418D+01	-0.1506D+01	-0.1453D+01
SHD	0.5550D+01	0.1077D+01	0.1700D+01	0.1356D+01	0.6244D+01	0.2190D+01	-0.2155D+00	-0.8035D-01	0.8535D-01	0.8233D-01
constant	-0.1067D-04	-0.2070D-05	-0.3268D-05	-0.2606D-05	-0.1200D-04	-0.4210D-05	0.4142D-06	0.1545D-06	-0.1641D-06	-0.1583D-06
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
X(l)										
DISCEIN	0.1056D+01	0.5352D-02	0.3822D-02	-0.5685D-01	-0.1390D-01	0.1521D-01	-0.7698D-01	0.2160D-01	-0.1814D+01	-0.9614D+04
LVCEI	0.5443D+01	0.2759D-01	0.1970D-01	-0.2930D+00	-0.7166D-01	0.7840D-01	-0.3968D+00	0.1114D+00	-0.9352D+01	-0.4956D+05
P08PC	0.3447D+01	0.1747D-01	0.1248D-01	-0.1856D+00	-0.4539D-01	0.4966D-01	-0.2513D+00	0.7052D-01	-0.5923D+01	-0.3139D+05
PTDEM	0.4323D+01	0.2191D-01	0.1565D-01	-0.2327D+00	-0.5692D-01	0.6227D-01	-0.3152D+00	0.8844D-01	-0.7428D+01	-0.3936D+05
NCROUT04	0.9387D+00	0.4757D-02	0.3397D-02	-0.5053D-01	-0.1236D-01	0.1352D-01	-0.6843D-01	0.1920D-01	-0.1613D+01	-0.8546D+04
GRPOL	0.2676D+01	0.1356D-01	0.9687D-02	-0.1441D+00	-0.3524D-01	0.3855D-01	-0.1951D+00	0.5475D-01	-0.4598D+01	-0.2437D+05
STR813	-0.2720D+02	-0.1378D+00	-0.9844D-01	0.1464D+01	0.3581D+00	-0.3918D+00	0.1983D+01	-0.5564D+00	0.4673D+02	0.2476D+06
STRP	-0.7295D+02	-0.3697D+00	-0.2640D+00	0.3927D+01	0.9604D+00	-0.1051D+01	0.5318D+01	-0.1492D+01	0.1253D+03	0.6641D+06
STRCUQ	0.6867D+02	0.3480D+00	0.2485D+00	-0.3697D+01	-0.9041D+00	0.9891D+00	-0.5006D+01	0.1405D+01	-0.1180D+03	-0.6252D+06
GRVOY	0.7119D+02	0.3608D+00	0.2577D+00	-0.3832D+01	-0.9372D+00	0.1025D+01	-0.5190D+01	0.1456D+01	-0.1223D+03	-0.6481D+06
AUTPKRP	0.1000D+01	0.5068D-02	0.3619D-02	-0.5383D-01	-0.1317D-01	0.1440D-01	-0.7290D-01	0.2046D-01	-0.1718D+01	-0.9104D+04
GRMUMH	0.1973D+03	0.1000D+01	0.7141D+00	-0.1062D+02	-0.2598D+01	0.2842D+01	-0.1438D+02	0.4036D+01	-0.3390D+03	-0.1796D+07
TLK822	0.2763D+03	0.1400D+01	0.1000D+01	-0.1487D+02	-0.3638D+01	0.3980D+01	-0.2014D+02	0.5652D+01	-0.4747D+03	-0.2515D+07
RFK822	-0.1858D+02	-0.9414D-01	-0.6723D-01	0.1000D+01	0.2446D+00	-0.2676D+00	0.1354D+01	-0.3800D+00	0.3191D+02	0.1691D+06
SFK822	-0.7596D+02	-0.3850D+00	-0.2749D+00	0.4089D+01	0.1000D+01	-0.1094D+01	0.5537D+01	-0.1554D+01	0.1305D+03	0.6915D+06
CSFMR822	0.6943D+02	0.3519D+00	0.2513D+00	-0.3737D+01	-0.9140D+00	0.1000D+01	-0.5061D+01	0.1420D+01	-0.1193D+03	-0.6321D+06
LOIIND61	-0.1372D+02	-0.6952D-01	-0.4965D-01	0.7385D+00	0.1806D+00	-0.1976D+00	0.1000D+01	-0.2806D+00	0.2357D+02	0.1249D+06
LOIAS	0.4888D+02	0.2477D+00	0.1769D+00	-0.2632D+01	-0.6436D+00	0.7041D+00	-0.3564D+01	0.1000D+01	-0.8399D+02	-0.4451D+06
MOP62	-0.5821D+00	-0.2950D-02	-0.2107D-02	0.3133D-01	0.7663D-02	-0.8384D-02	0.4243D-01	-0.1191D-01	0.1000D+01	0.5299D+04
PRMVACR1	-0.1098D-03	-0.5567D-06	-0.3975D-06	0.5913D-05	0.1446D-05	-0.1582D-05	0.8007D-05	-0.2247D-05	0.1887D-03	0.1000D+01
KMPARR1	-0.3747D+09	-0.1899D+07	-0.1356D+07	0.2017D+08	0.4933D+07	-0.5397D+07	0.2731D+08	-0.7665D+07	0.6437D+09	0.3411D+13
DICR1	0.2236D+09	0.1133D+07	0.8094D+06	-0.1204D+08	-0.2944D+07	0.3221D+07	-0.1630D+08	0.4575D+07	-0.3842D+09	-0.2036D+13
PGRPKM	0.2602D-01	0.1319D-03	0.9416D-04	-0.1401D-02	-0.3425D-03	0.3747D-03	-0.1897D-02	0.5322D-03	-0.4470D-01	-0.2369D+03
PDRQ	0.1225D-01	0.6209D-04	0.4434D-04	-0.6596D-03	-0.1613D-03	0.1765D-03	-0.8932D-03	0.2506D-03	-0.2105D-01	-0.1115D+03
ENTRNMDC	0.1963D+02	0.9946D-01	0.7103D-01	-0.1057D+01	-0.2584D+00	0.2827D+00	-0.1431D+01	0.4015D+00	-0.3372D+02	-0.1787D+06
PPAS	-0.1990D-01	-0.1008D-03	-0.7201D-04	0.1071D-02	0.2619D-03	-0.2866D-03	0.1450D-02	-0.4070D-03	0.3418D-01	0.1811D+03
SURPOL	0.3819D+01	0.1936D-01	0.1382D-01	-0.2056D+00	-0.5028D-01	0.5501D-01	-0.2784D+00	0.7813D-01	-0.6562D+01	-0.3477D+05
PERPA	-0.4581D+00	-0.2321D-02	-0.1658D-02	0.2466D-01	0.6031D-02	-0.6598D-02	0.3339D-01	-0.9370D-02	0.7870D+00	0.4170D+04
PRCHOM	0.2232D+01	0.1131D-01	0.8077D-02	-0.1201D+00	-0.2938D-01	0.3215D-01	-0.1627D+00	0.4565D-01	-0.3834D+01	-0.2032D+05
PRFEVM	0.5685D-02	0.2881D-04	0.2058D-04	-0.3060D-03	-0.7484D-04	0.8188D-04	-0.4144D-03	0.1163D-03	-0.9767D-02	-0.5176D+02
HEUHM	0.1390D+02	0.7043D-01	0.5029D-01	-0.7481D+00	-0.1829D+00	0.2002D+00	-0.1013D+01	0.2843D+00	-0.2387D+02	-0.1265D+06
PRMED	-0.3942D+01	-0.1998D-01	-0.1427D-01	0.2122D+00	0.5190D-01	-0.5678D-01	0.2874D+00	-0.8065D-01	0.6773D+01	0.3589D+05
PRALT	0.1278D+01	0.6478D-02	0.4626D-02	-0.6881D-01	-0.1683D-01	0.1841D-01	-0.9318D-01	0.2615D-01	-0.2196D+01	-0.1164D+05

PRMTRAR1	-0.1124D-04	-0.5695D-07	-0.4067D-07	0.6050D-06	0.1479D-06	-0.1619D-06	0.8192D-06	-0.2299D-06	0.1931D-04	0.1023D+00
PRMMAGR1	-0.9328D-01	-0.4728D-03	-0.3376D-03	0.5022D-02	0.1228D-02	-0.1344D-02	0.6800D-02	-0.1908D-02	0.1603D+00	0.8493D+03
WD	0.1509D+02	0.7646D-01	0.5461D-01	-0.8122D+00	-0.1986D+00	0.2173D+00	-0.1100D+01	0.3086D+00	-0.2592D+02	-0.1374D+06
SAT	-0.1034D+03	-0.5241D+00	-0.3743D+00	0.5567D+01	0.1361D+01	-0.1489D+01	0.7538D+01	-0.2115D+01	0.1777D+03	0.9414D+06
SHD	0.5861D+01	0.2970D-01	0.2121D-01	-0.3155D+00	-0.7716D-01	0.8442D-01	-0.4273D+00	0.1199D+00	-0.1007D+02	-0.5336D+05
constant	-0.1127D-04	-0.5710D-07	-0.4078D-07	0.6065D-06	0.1483D-06	-0.1623D-06	0.8214D-06	-0.2305D-06	0.1936D-04	0.1026D+00
X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
X(l)										
DISCEIN	-0.2818D-08	0.4722D-08	0.4059D+02	0.8619D+02	0.5381D-01	-0.5308D+02	0.2765D+00	-0.2305D+01	0.4732D+00	0.1858D+03
LVCEI	-0.1453D-07	0.2434D-07	0.2092D+03	0.4443D+03	0.2774D+00	-0.2736D+03	0.1425D+01	-0.1188D+02	0.2439D+01	0.9575D+03
P08PC	-0.9201D-08	0.1542D-07	0.1325D+03	0.2814D+03	0.1757D+00	-0.1733D+03	0.9026D+00	-0.7526D+01	0.1545D+01	0.6064D+03
PTDEM	-0.1154D-07	0.1933D-07	0.1662D+03	0.3529D+03	0.2203D+00	-0.2173D+03	0.1132D+01	-0.9438D+01	0.1937D+01	0.7605D+03
NCROUT04	-0.2505D-08	0.4197D-08	0.3608D+02	0.7661D+02	0.4783D-01	-0.4718D+02	0.2458D+00	-0.2049D+01	0.4206D+00	0.1651D+03
GRPOL	-0.7143D-08	0.1197D-07	0.1029D+03	0.2185D+03	0.1364D+00	-0.1345D+03	0.7008D+00	-0.5843D+01	0.1199D+01	0.4708D+03
STR813	0.7259D-07	-0.1216D-06	-0.1045D+04	-0.2220D+04	-0.1386D+01	0.1367D+04	-0.7121D+01	0.5938D+02	-0.1219D+02	-0.4784D+04
STRP	0.1947D-06	-0.3262D-06	-0.2804D+04	-0.5954D+04	-0.3717D+01	0.3666D+04	-0.1910D+02	0.1592D+03	-0.3269D+02	-0.1283D+05
STRCUQ	-0.1833D-06	0.3071D-06	0.2639D+04	0.5605D+04	0.3499D+01	-0.3452D+04	0.1798D+02	-0.1499D+03	0.3077D+02	0.1208D+05
GRVOY	-0.1900D-06	0.3183D-06	0.2736D+04	0.5810D+04	0.3627D+01	-0.3578D+04	0.1864D+02	-0.1554D+03	0.3190D+02	0.1252D+05
AUTPKRP	-0.2669D-08	0.4471D-08	0.3844D+02	0.8162D+02	0.5095D-01	-0.5026D+02	0.2618D+00	-0.2183D+01	0.4481D+00	0.1759D+03
GRMUMH	-0.5266D-06	0.8823D-06	0.7584D+04	0.1610D+05	0.1005D+02	-0.9918D+04	0.5166D+02	-0.4308D+03	0.8841D+02	0.3471D+05
TLK822	-0.7374D-06	0.1235D-05	0.1062D+05	0.2255D+05	0.1408D+02	-0.1389D+05	0.7234D+02	-0.6032D+03	0.1238D+03	0.4860D+05
RFK822	0.4958D-07	-0.8306D-07	-0.7140D+03	-0.1516D+04	-0.9465D+00	0.9337D+03	-0.4864D+01	0.4055D+02	-0.8324D+01	-0.3268D+04
SFK822	0.2027D-06	-0.3396D-06	-0.2920D+04	-0.6200D+04	-0.3870D+01	0.3818D+04	-0.1989D+02	0.1658D+03	-0.3404D+02	-0.1336D+05
CSFMR822	-0.1853D-06	0.3104D-06	0.2668D+04	0.5666D+04	0.3537D+01	-0.3490D+04	0.1818D+02	-0.1516D+03	0.3111D+02	0.1221D+05
LOIIND61	0.3661D-07	-0.6134D-07	-0.5272D+03	-0.1120D+04	-0.6989D+00	0.6895D+03	-0.3592D+01	0.2995D+02	-0.6147D+01	-0.2413D+04
LOIAS	-0.1305D-06	0.2186D-06	0.1879D+04	0.3990D+04	0.2491D+01	-0.2457D+04	0.1280D+02	-0.1067D+03	0.2190D+02	0.8599D+04
MOP62	0.1553D-08	-0.2603D-08	-0.2237D+02	-0.4751D+02	-0.2966D-01	0.2926D+02	-0.1524D+00	0.1271D+01	-0.2608D+00	-0.1024D+03
PRMVACR1	0.2932D-12	-0.4911D-12	-0.4222D-02	-0.8965D-02	-0.5597D-05	0.5521D-02	-0.2876D-04	0.2398D-03	-0.4922D-04	-0.1932D-01
KMPARR1	0.1000D+01	-0.1675D+01	-0.1440D+11	-0.3058D+11	-0.1909D+08	0.1883D+11	-0.9810D+08	0.8179D+09	-0.1679D+09	-0.6591D+11
DICR1	-0.5969D+00	0.1000D+01	0.8596D+10	0.1825D+11	0.1140D+08	-0.1124D+11	0.5855D+08	-0.4882D+09	0.1002D+09	0.3934D+11
PGRPKM	-0.6944D-10	0.1163D-09	0.1000D+01	0.2123D+01	0.1326D-02	-0.1308D+01	0.6812D-02	-0.5680D-01	0.1166D-01	0.4577D+01
PDRQ	-0.3270D-10	0.5478D-10	0.4709D+00	0.1000D+01	0.6243D-03	-0.6158D+00	0.3208D-02	-0.2675D-01	0.5490D-02	0.2155D+01
ENTRNMDC	-0.5238D-07	0.8776D-07	0.7543D+03	0.1602D+04	0.1000D+01	-0.9864D+03	0.5139D+01	-0.4284D+02	0.8794D+01	0.3452D+04
PPAS	0.5310D-10	-0.8896D-10	-0.7647D+00	-0.1624D+01	-0.1014D-02	0.1000D+01	-0.5209D-02	0.4343D-01	-0.8915D-02	-0.3500D+01
SURPOL	-0.1019D-07	0.1708D-07	0.1468D+03	0.3117D+03	0.1946D+00	-0.1920D+03	0.1000D+01	-0.8338D+01	0.1711D+01	0.6718D+03
PERPA	0.1223D-08	-0.2048D-08	-0.1761D+02	-0.3739D+02	-0.2334D-01	0.2302D+02	-0.1199D+00	0.1000D+01	-0.2053D+00	-0.8058D+02
PRCHOM	-0.5956D-08	0.9979D-08	0.8578D+02	0.1822D+03	0.1137D+00	-0.1122D+03	0.5843D+00	-0.4872D+01	0.1000D+01	0.3926D+03
PRFEVM	-0.1517D-10	0.2542D-10	0.2185D+00	0.4640D+00	0.2897D-03	-0.2857D+00	0.1488D-02	-0.1241D-01	0.2547D-02	0.1000D+01
HEUHM	-0.3709D-07	0.6214D-07	0.5341D+03	0.1134D+04	0.7081D+00	-0.6984D+03	0.3638D+01	-0.3034D+02	0.6227D+01	0.2444D+04
PRMED	0.1052D-07	-0.1763D-07	-0.1515D+03	-0.3218D+03	-0.2009D+00	0.1982D+03	-0.1032D+01	0.8607D+01	-0.1767D+01	-0.6935D+03
PRALT	-0.3412D-08	0.5716D-08	0.4913D+02	0.1043D+03	0.6513D-01	-0.6425D+02	0.3347D+00	-0.2791D+01	0.5728D+00	0.2249D+03
PRMTRAR1	0.2999D-13	-0.5025D-13	-0.4319D-03	-0.9172D-03	-0.5726D-06	0.5648D-03	-0.2942D-05	0.2453D-04	-0.5035D-05	-0.1977D-02
PRMMAGR1	0.2490D-09	-0.4171D-09	-0.3585D+01	-0.7614D+01	-0.4753D-02	0.4689D+01	-0.2442D-01	0.2036D+00	-0.4180D-01	-0.1641D+02
WD	-0.4027D-07	0.6746D-07	0.5799D+03	0.1231D+04	0.7687D+00	-0.7583D+03	0.3950D+01	-0.3294D+02	0.6760D+01	0.2654D+04
SAT	0.2760D-06	-0.4624D-06	-0.3974D+04	-0.8440D+04	-0.5269D+01	0.5197D+04	-0.2707D+02	0.2257D+03	-0.4633D+02	-0.1819D+05
SHD	-0.1564D-07	0.2621D-07	0.2253D+03	0.4784D+03	0.2986D+00	-0.2946D+03	0.1535D+01	-0.1280D+02	0.2626D+01	0.1031D+04
constant	0.3007D-13	-0.5038D-13	-0.4331D-03	-0.9196D-03	-0.5741D-06	0.5663D-03	-0.2950D-05	0.2460D-04	-0.5049D-05	-0.1982D-02
X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
X(l)										
DISCEIN	0.7599D-01	-0.2679D+00	0.8261D+00	-0.9397D+05	-0.1132D+02	0.6999D-01	-0.1021D-01	0.1802D+00	-0.9372D+05	

LVCEI	0.3917D+00	-0.1381D+01	0.4258D+01	-0.4844D+06	-0.5835D+02	0.3608D+00	-0.5264D-01	0.9287D+00	-0.4831D+06
P08PC	0.2481D+00	-0.8745D+00	0.2697D+01	-0.3068D+06	-0.3696D+02	0.2285D+00	-0.3334D-01	0.5882D+00	-0.3060D+06
PTDEM	0.3111D+00	-0.1097D+01	0.3382D+01	-0.3847D+06	-0.4635D+02	0.2865D+00	-0.4181D-01	0.7376D+00	-0.3837D+06
NCROUT04	0.6755D-01	-0.2381D+00	0.7343D+00	-0.8353D+05	-0.1006D+02	0.6222D-01	-0.9078D-02	0.1602D+00	-0.8331D+05
GRPOL	0.1926D+00	-0.6789D+00	0.2094D+01	-0.2382D+06	-0.2869D+02	0.1774D+00	-0.2588D-01	0.4566D+00	-0.2375D+06
STR813	-0.1957D+01	0.6899D+01	-0.2128D+02	0.2420D+07	0.2916D+03	-0.1803D+01	0.2630D+00	-0.4641D+01	0.2414D+07
STRP	-0.5249D+01	0.1850D+02	-0.5707D+02	0.6491D+07	0.7820D+03	-0.4835D+01	0.7054D+00	-0.1245D+02	0.6474D+07
STRCUQ	0.4942D+01	-0.1742D+02	0.5372D+02	-0.6111D+07	-0.7362D+03	0.4552D+01	-0.6641D+00	0.1172D+02	-0.6095D+07
GRVOY	0.5123D+01	-0.1806D+02	0.5569D+02	-0.6335D+07	-0.7631D+03	0.4718D+01	-0.6884D+00	0.1215D+02	-0.6318D+07
AUTPKRP	0.7196D-01	-0.2537D+00	0.7823D+00	-0.8899D+05	-0.1072D+02	0.6628D-01	-0.9671D-02	0.1706D+00	-0.8875D+05
GRMUMH	0.1420D+02	-0.5005D+02	0.1544D+03	-0.1756D+08	-0.2115D+04	0.1308D+02	-0.1908D+01	0.3367D+02	-0.1751D+08
TLK822	0.1988D+02	-0.7008D+02	0.2162D+03	-0.2459D+08	-0.2962D+04	0.1831D+02	-0.2672D+01	0.4714D+02	-0.2452D+08
RFK822	-0.1337D+01	0.4712D+01	-0.1453D+02	0.1653D+07	0.1991D+03	-0.1231D+01	0.1796D+00	-0.3169D+01	0.1649D+07
SFK822	-0.5466D+01	0.1927D+02	-0.5942D+02	0.6759D+07	0.8143D+03	-0.5035D+01	0.7346D+00	-0.1296D+02	0.6742D+07
CSFMR822	0.4996D+01	-0.1761D+02	0.5431D+02	-0.6178D+07	-0.7443D+03	0.4602D+01	-0.6714D+00	0.1185D+02	-0.6162D+07
LOIIND61	-0.9871D+00	0.3479D+01	-0.1073D+02	0.1221D+07	0.1471D+03	-0.9092D+00	0.1327D+00	-0.2340D+01	0.1217D+07
LOIAS	0.3518D+01	-0.1240D+02	0.3824D+02	-0.4350D+07	-0.5240D+03	0.3240D+01	-0.4728D+00	0.8340D+01	-0.4339D+07
MOP62	-0.4189D-01	0.1476D+00	-0.4554D+00	0.5180D+05	0.6240D+01	-0.3858D-01	0.5629D-02	-0.9931D-01	0.5166D+05
PRMVACR1	-0.7904D-05	0.2786D-04	-0.8593D-04	0.9774D+01	0.1177D-02	-0.7280D-05	0.1062D-05	-0.1874D-04	0.9749D+01
KMPARR1	-0.2696D+08	0.9504D+08	-0.2931D+09	0.3334D+14	0.4017D+10	-0.2483D+08	0.3623D+07	-0.6393D+08	0.3325D+14
DICR1	0.1609D+08	-0.5673D+08	0.1750D+09	-0.1990D+14	-0.2397D+10	0.1482D+08	-0.2163D+07	0.3816D+08	-0.1985D+14
PGRPKM	0.1872D-02	-0.6599D-02	0.2035D-01	-0.2315D+04	-0.2789D+00	0.1724D-02	-0.2516D-03	0.4439D-02	-0.2309D+04
PDRQ	0.8817D-03	-0.3108D-02	0.9585D-02	-0.1090D+04	-0.1313D+00	0.8121D-03	-0.1185D-03	0.2090D-02	-0.1087D+04
ENTRNMD	0.1412D+01	-0.4978D+01	0.1535D+02	-0.1746D+07	-0.2104D+03	0.1301D+01	-0.1898D+00	0.3348D+01	-0.1742D+07
PPAS	-0.1432D-02	0.5047D-02	-0.1556D-01	0.1770D+04	0.2133D+00	-0.1319D-02	0.1924D-03	-0.3395D-02	0.1766D+04
SURPOL	0.2749D+00	-0.9688D+00	0.2988D+01	-0.3399D+06	-0.4094D+02	0.2531D+00	-0.3694D-01	0.6516D+00	-0.3390D+06
PERPA	-0.3296D-01	0.1162D+00	-0.3584D+00	0.4076D+05	0.4911D+01	-0.3036D-01	0.4430D-02	-0.7815D-01	0.4066D+05
PRCHOM	0.1606D+00	-0.5661D+00	0.1746D+01	-0.1986D+06	-0.2392D+02	0.1479D+00	-0.2158D-01	0.3808D+00	-0.1981D+06
PRFEVM	0.4091D-03	-0.1442D-02	0.4447D-02	-0.5059D+03	-0.6094D-01	0.3768D-03	-0.5498D-04	0.9699D-03	-0.5046D+03
HEUHM	0.1000D+01	-0.3525D+01	0.1087D+02	-0.1237D+07	-0.1490D+03	0.9210D+00	-0.1344D+00	0.2371D+01	-0.1233D+07
PRMED	-0.2837D+00	0.1000D+01	-0.3084D+01	0.3508D+06	0.4226D+02	-0.2613D+00	0.3813D-01	-0.6726D+00	0.3499D+06
PRALT	0.9199D-01	-0.3242D+00	0.1000D+01	-0.1137D+06	-0.1370D+02	0.8472D-01	-0.1236D-01	0.2181D+00	-0.1134D+06
PRMTRAR1	-0.8087D-06	0.2850D-05	-0.8791D-05	0.1000D+01	0.1205D-03	-0.7448D-06	0.1087D-06	-0.1917D-05	0.9974D+00
PRMMAGR1	-0.6713D-02	0.2366D-01	-0.7298D-01	0.8301D+04	0.1000D+01	-0.6183D-02	0.9021D-03	-0.1592D-01	0.8279D+04
WD	0.1086D+01	-0.3827D+01	0.1180D+02	-0.1343D+07	-0.1617D+03	0.1000D+01	-0.1459D+00	0.2574D+01	-0.1339D+07
SAT	-0.7441D+01	0.2623D+02	-0.8090D+02	0.9202D+07	0.1109D+04	-0.6854D+01	0.1000D+01	-0.1764D+02	0.9177D+07
SHD	0.4218D+00	-0.1487D+01	0.4585D+01	-0.5216D+06	-0.6283D+02	0.3885D+00	-0.5668D-01	0.1000D+01	-0.5202D+06
constant	-0.8108D-06	0.2858D-05	-0.8815D-05	0.1003D+01	0.1208D-03	-0.7468D-06	0.1090D-06	-0.1922D-05	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0064

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.1071067D+03	0.1071696D+03
STD.ERROR	0.4244038D+02	0.3913908D+02
SKEWNESS	0.2371302	-0.3238644

E(y) at the means : 0.1071119D+03

Sig(y) at the means : 0.1605212D+02

C.o.V. at the means : 0.1498632

Gam(y) at the means : -0.0001589

Pearson-R2 : 0.8576683

Pearson-R2 bar : 0.8369457

Pseudo-(1)-R2 : 0.8564669

```
Pseudo-(1)-R2 bar      :      0.8355693
Error Variance          :      0.2576681D+03
Log-likelihood          :      -0.1258432D+04
```

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
 minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
 and starting direction (relative parameter increments for 1st step)

```

      10      500      0.1D+01      0.1D-06
0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.10000D+01
0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01
0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)
-0.1231186672D+03  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00
0.00000D+00  0.10000D+01

new absolute minimum , parameters for fcn entry      6 follow - - f,x(i)
-0.1776625981D+03  -0.11459D-01  0.49347D-01  -0.18241D+00  -0.11701D+00  -0.21845D+00  -0.11576D+00  0.16162D+00  0.24888D+00
0.17778D-01  0.72113D+00

new absolute minimum , parameters for fcn entry      10 follow - - f,x(i)
-0.1850198936D+03  -0.13969D-01  -0.22861D-01  -0.17033D+00  -0.91032D-01  -0.23129D+00  -0.18794D+00  0.37962D-01  0.14062D+00
-0.25442D-02  0.39470D+00

new absolute minimum , parameters for fcn entry      13 follow - - f,x(i)
-0.1859958618D+03  -0.42712D-01  -0.41037D-01  -0.19860D+00  -0.87592D-01  -0.21157D+00  -0.15478D+00  0.25382D-01  0.13236D+00
-0.51253D-01  0.34043D+00

new absolute minimum , parameters for fcn entry      17 follow - - f,x(i)
-0.1865410819D+03  -0.57660D-01  0.44367D-02  -0.19500D+00  -0.81331D-01  -0.17972D+00  -0.14503D+00  -0.26991D-01  0.17140D+00
-0.93632D-01  0.30530D+00

new absolute minimum , parameters for fcn entry      19 follow - - f,x(i)
-0.1865877757D+03  -0.48345D-01  -0.34163D-02  -0.19349D+00  -0.75837D-01  -0.18144D+00  -0.14090D+00  -0.37177D-01  0.18401D+00
-0.10104D+00  0.30393D+00

new absolute minimum , parameters for fcn entry      21 follow - - f,x(i)
-0.1865953159D+03  -0.51728D-01  -0.78832D-02  -0.19388D+00  -0.77958D-01  -0.18206D+00  -0.14285D+00  -0.42362D-01  0.18718D+00
-0.10140D+00  0.30558D+00

new absolute minimum , parameters for fcn entry      23 follow - - f,x(i)
-0.1866004724D+03  -0.53323D-01  -0.81767D-02  -0.19587D+00  -0.78963D-01  -0.18748D+00  -0.14375D+00  -0.47775D-01  0.18612D+00
-0.10432D+00  0.30795D+00

new absolute minimum , parameters for fcn entry      25 follow - - f,x(i)
-0.1866028318D+03  -0.51760D-01  -0.80747D-02  -0.19707D+00  -0.81932D-01  -0.18743D+00  -0.14292D+00  -0.49833D-01  0.18531D+00
-0.10442D+00  0.30806D+00

new absolute minimum , parameters for fcn entry      27 follow - - f,x(i)
-0.1866350250D+03  -0.49438D-01  -0.95852D-02  -0.18914D+00  -0.85775D-01  -0.18223D+00  -0.14675D+00  -0.51090D-01  0.18059D+00
-0.11715D+00  0.30416D+00

new absolute minimum , parameters for fcn entry      30 follow - - f,x(i)
-0.1867662636D+03  -0.53255D-01  -0.89312D-02  -0.18737D+00  -0.61071D-01  -0.16153D+00  -0.13894D+00  -0.72267D-01  0.16724D+00
-0.12086D+00  0.28382D+00

new absolute minimum , parameters for fcn entry      33 follow - - f,x(i)
-0.1867719769D+03  -0.50899D-01  -0.91757D-02  -0.19331D+00  -0.57740D-01  -0.15686D+00  -0.14454D+00  -0.73273D-01  0.16594D+00
-0.12290D+00  0.28431D+00

new absolute minimum , parameters for fcn entry      36 follow - - f,x(i)
-0.1867875016D+03  -0.50739D-01  -0.92740D-02  -0.19417D+00  -0.54575D-01  -0.15277D+00  -0.14683D+00  -0.82404D-01  0.16599D+00
-0.13155D+00  0.26681D+00

new absolute minimum , parameters for fcn entry      38 follow - - f,x(i)
-0.1867882488D+03  -0.50492D-01  -0.90218D-02  -0.19398D+00  -0.53344D-01  -0.15121D+00  -0.14682D+00  -0.84460D-01  0.16790D+00
-0.13439D+00  0.26632D+00

new absolute minimum , parameters for fcn entry      40 follow - - f,x(i)
-0.1867882637D+03  -0.50512D-01  -0.91498D-02  -0.19419D+00  -0.53316D-01  -0.15116D+00  -0.14696D+00  -0.84971D-01  0.16786D+00
-0.13465D+00  0.26629D+00

new absolute minimum , parameters for fcn entry      41 follow - - f,x(i)
-0.1867882638D+03  -0.50499D-01  -0.91477D-02  -0.19420D+00  -0.53302D-01  -0.15114D+00  -0.14697D+00  -0.84976D-01  0.16786D+00
-0.13465D+00  0.26628D+00

new absolute minimum , parameters for fcn entry      42 follow - - f,x(i)
-0.1867882638D+03  -0.50499D-01  -0.91473D-02  -0.19420D+00  -0.53301D-01  -0.15115D+00  -0.14697D+00  -0.84976D-01  0.16786D+00
-0.13465D+00  0.26628D+00

new absolute minimum , parameters for fcn entry      43 follow - - f,x(i)
-0.1867882638D+03  -0.50499D-01  -0.91472D-02  -0.19420D+00  -0.53301D-01  -0.15115D+00  -0.14697D+00  -0.84976D-01  0.16786D+00
-0.13465D+00  0.26628D+00

```

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
 -0.1867882638D+03 -0.50499D-01 -0.91472D-02 -0.19420D+00 -0.53301D-01 -0.15115D+00 -0.14697D+00 -0.84976D-01 0.16786D+00
 -0.13465D+00 0.26628D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcf) was -0.1867882638D+03 for entry 43 - x(i) follows
-0.50499D-01 -0.91472D-02 -0.19420D+00 -0.53301D-01 -0.15115D+00 -0.14697D+00 -0.84976D-01 0.16786D+00 -0.13465D+00 0.26628D+00

run statistics follow - -

nfcf= 43 nst= 17

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

OBSERVED Y FITTED E(Y)
MEAN 0.1071067D+03 0.1071045D+03
STD.ERROR 0.4244038D+02 0.3959017D+02
SKEWNESS 0.2371302 0.0112834

E(y) at the means : 0.9908731D+02

Sig(y) at the means : 0.1311345D+02

C.o.V. at the means : 0.1323424

Gam(y) at the means : 0.2912807

Pearson-R2 : 0.8972333

Pearson-R2 bar : 0.8775807

Pseudo-(1)-R2 : 0.9344417

Pseudo-(1)-R2 bar : 0.9219047

Error Variance : 0.2022303D+00

Log-likelihood : -0.1194763D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)	SIGMA(y)	y(sample)	E(y)	SIGMA(y)
								GAMMA(y)			GAMMA(y)	
							-first obs	14		-first obs	302	
							-last obs	313		-last obs	313	
1 DISCEIN	NL	0	0.3319941D+00	-0.3027945D-04	0.6963546D+00 0.6873686D+00	0.4768 0.4830	0.0438	0.0447	0.1037	0.1051	0.0771	0.1051
								0.0327		0.0282		0.0282
								-0.0120		-0.0504		-0.0504
2 LVCEI	NL	0	-0.1592466D+00	-0.1667616D-04	0.1819359D+00 0.1650255D+00	-0.8753 -0.9650	-0.0117	-0.0120	-0.0497	-0.0370	-0.0370	-0.0370
								-0.0088		0.0135		0.0135
								0.0032		-0.0119		-0.0119
3 P08PC	NL	0	-0.3753744D-01	-0.3466287D-04	0.2320685D+00 0.2315470D+00	-0.1618 -0.1621	-0.0057	-0.0058	-0.0117	-0.0087	0.0032	0.0032
								-0.0042		-0.1014		-0.1014
								0.0015		-0.0754		-0.0754
4 PTDEM	NL	0	-0.3247150D+00	-0.2592991D-04	0.2591299D+00 0.2510612D+00	-1.2531 -1.2934	-0.0368	-0.0375	-0.1014	-0.1028	-0.0754	-0.0754
								-0.0275		0.0275		0.0275
								0.0101		-0.0472		-0.0472
5 NCR0UT04	NL	0	-0.2016423D+00	-0.1494811D-05	0.3561645D+00 0.3327699D+00	-0.5661 -0.6060	-0.0017	-0.0018	-0.0472	-0.0479	-0.0351	-0.0351
								-0.0013		0.0128		0.0128
								0.0005		0.0000		0.0000
6 GRPOL	NL	0	-0.3644569D-01	-0.7104162D-06	0.2847259D+00 0.2847255D+00	-0.1280 -0.1280	-0.0001	-0.0001	0.0000	0.0000	0.0000	0.0000
								-0.0001		0.0000		0.0000
								0.0000		0.0000		0.0000
7 STR813	NL	0	0.2487135D-01	-0.3148792D-04	0.2136500D-01 0.1849054D-01	1.1641 1.3451	0.0034	0.0035	0.0084	0.0085	0.0063	0.0063
								0.0025		-0.0023		-0.0023
								-0.0009		-0.0043		-0.0043
8 STRP	NL	0	-0.2059991D-01	-0.8144779D-05	0.2991572D-01 0.2810900D-01	-0.6886 -0.7329	-0.0008	-0.0008	-0.0043	-0.0032	0.0012	0.0012
								-0.0006		-0.0048		-0.0048
								0.0002		-0.0036		-0.0036
9 STRCUQ	NL	0	-0.1223632D-01	-0.8630619D-04	0.8094532D-02 0.6636897D-02	-1.5117 -1.8437	-0.0046	-0.0047	-0.0048	-0.0048	-0.0036	-0.0036
								-0.0034		0.0013		0.0013
								0.0013		0.0000		0.0000
10 GRVOY	NL	0	-0.2278089D-02	-0.5318571D-04	0.7196582D-02 0.7115544D-02	-0.3166 -0.3202	-0.0005	-0.0005	0.0000	0.0000	0.0000	0.0000
								-0.0004		0.0000		0.0000
								0.0001		0.0000		0.0000
11 AUTPKRP	NL	0	0.5035683D+00	-0.2158601D-04	0.1582024D+01 0.1533772D+01	0.3183 0.3283	0.0472	0.0481	0.0808	0.0819	0.0601	0.0601
								0.0353		-0.0220		-0.0220
								-0.0129		0.0000		0.0000
12 GRMUMH	NL	0	-0.9562730D-02	-0.1155834D-04	0.2037926D-01 0.2005981D-01	-0.4692 -0.4767	-0.0005	-0.0005	0.0000	0.0000	0.0000	0.0000
								-0.0004		0.0000		0.0000
								0.0001		0.0000		0.0000
13 TLK822	NL	0	-0.2649447D-02	-0.1297213D-01	0.1030768D-02 0.4957749D-03	-2.5704 -5.3441	-0.1472	-0.1500	-0.1560	-0.1581	-0.1160	-0.1160
								-0.1100		0.0424		0.0424
								0.0402		-0.0002		-0.0002
14 RFK822	NL	0	-0.6360599D-03	-0.5186750D-04	0.8369630D-01 0.8367734D-01	-0.0076 -0.0076	-0.0001	-0.0001	-0.0002	-0.0002	-0.0001	-0.0001
								-0.0001		0.0000		0.0000
								0.0000		0.0134		0.0134
15 SFK822	NL	0	0.2624127D-01	-0.1688696D-03	0.2052338D-01 0.1772155D-01	1.2786 1.4808	0.0190	0.0193	0.0134	0.0136	0.0100	0.0100
								0.0142		-0.0036		-0.0036
								-0.0052		-0.1008		-0.1008
16 CSFMR822	NL	0	-0.1591092D-01	-0.1581686D-02	0.6962580D-02 0.2887424D+00	-2.2852 -5.5104	-0.1079	-0.1099	-0.0995	-0.1008	-0.0739	-0.0739
								-0.0806		0.0270		0.0270
								0.0295		-0.0380		-0.0380
17 LOIIND61	NL	0	-0.1200381D+00	-0.5727914D-04	0.2138455D+00 0.2052655D+00	-0.5613 -0.5848	-0.0297	-0.0303	-0.0375	-0.0279	-0.0279	-0.0279
								-0.0222		0.0102		0.0102
								0.0081		0.0372		0.0372
18 LOIAS	NL	0	0.1191022D+00	-0.1246580D-04	0.2022954D+00	0.5888	0.0066	0.0068	0.0372	0.0377		

					0.1961306D+00	0.6073			0.0050		0.0277
									-0.0018		-0.0101
19	MOP62	NL	0	0.1559651D+01	-0.5458577D-04	0.6072272D+00	2.5685	0.3684	0.3755	0.4872	0.4939
						0.2151798D+00	7.2481		0.2754		0.3622
									-0.1006		-0.1323
20	PRMVACR1	NL	0	0.4646670D+04	-0.2923391D-08	0.2194684D+04	2.1172	0.0582	0.0593	0.0715	0.0725
						0.1442940D+04	3.2203		0.0435		0.0532
									-0.0159		-0.0194
21	KMPARR1	EL	1	0.6477251D-02	-0.8057360D-01	0.1096260D-01	0.5908	0.6010	0.6125	0.6804	0.6897
						0.3998433D-02	1.6199		0.4492		0.5058
									-0.1642		-0.1848
22	DICR1	EL	1	0.1245709D-02	-0.2809168D-01	0.2339102D-02	0.5326	0.0426	0.0434	0.0534	0.0541
						0.1960128D-02	0.6355		0.0318		0.0397
									-0.0116		-0.0145
23	PGRPKM	EL	1	-0.8263837D+00	0.1689396D-03	0.2777058D+01	-0.2976	-0.0792	-0.0807	-0.0977	-0.0990
						0.2533956D+01	-0.3261		-0.0592		-0.0726
									0.0216		0.0265
24	PDRQ	EL	1	-0.1132535D+02	0.1189691D-03	0.6744717D+01	-1.6791	-1.7317	-1.7650	-2.1348	-2.1639
						0.2343612D+01	-4.8324		-1.2944		-1.5868
									0.4731		0.5798
25	ENTRNMDC	EL	1	-0.1153185D+01	-0.5058287D-03	0.2992178D+00	-3.8540	-1.0010	-1.0202	-1.1595	-1.1753
						0.2990525D+00	-3.8561		-0.7482		-0.8619
									0.2735		0.3149
26	PPAS	EL	1	0.8328043D+01	0.9835975D-04	0.5378067D+01	1.5485	1.4749	1.5032	1.8182	1.8430
						0.2817306D+01	2.9560		1.1025		1.3515
									-0.4029		-0.4938
27	SURPOL	EL	1	-0.7903462D+00	-0.1885269D-03	0.3801790D+00	-2.0789	-0.3994	-0.4071	-0.4252	-0.4310
						0.3310141D+00	-2.3877		-0.2986		-0.3161
									0.1091		0.1155
28	PERPA	EL	1	0.1958445D+01	-0.1804248D-04	0.1277253D+01	1.5333	0.6047	0.6163	0.6758	0.6850
						0.9967622D+00	1.9648		0.4520		0.5023
									-0.1652		-0.1835
29	PRCHOM	EL	1	-0.1655500D+01	0.1472426D-03	0.1240443D+01	-1.3346	-0.2008	-0.2047	-0.2415	-0.2448
						0.7191818D+00	-2.3019		-0.1501		-0.1795
									0.0549		0.0656
30	PRFEVM	EL	1	-0.2609743D+01	0.1759073D-03	0.3278534D+01	-0.7960	-0.2284	-0.2328	-0.2421	-0.2454
						0.2523621D+01	-1.0341		-0.1707		-0.1799
									0.0624		0.0657
31	HEUHM	EL	1	0.7871862D+00	-0.4232926D-03	0.1098629D+01	0.7165	0.6069	0.6185	0.6472	0.6560
						0.1089542D+01	0.7225		0.4536		0.4811
									-0.1658		-0.1758
32	PRMED	EL	1	0.2939148D+00	-0.8451220D-04	0.4384287D+00	0.6704	0.1135	0.1157	0.1301	0.1319
						0.4220415D+00	0.6964		0.0848		0.0967
									-0.0310		-0.0353
33	PRALT	EL	1	-0.9684015D+00	0.2267351D-04	0.6897437D+00	-1.4040	-0.2553	-0.2602	-0.2822	-0.2860
						0.6061739D+00	-1.5976		-0.1909		-0.2097
									0.0698		0.0766
34	PRMTRARI	EL	1	0.1214555D+02	0.2343176D-03	0.1853989D+02	0.6551	0.2534	0.2582	0.2605	0.2640
						0.1237548D+02	0.9814		0.1894		0.1936
									-0.0692		-0.0707
35	PRMMAGRI	EL	1	0.2607098D+01	0.1019403D-03	0.1664777D+01	1.5660	0.4484	0.4570	0.4933	0.5000
						0.1189273D+01	2.1922		0.3351		0.3666
									-0.1225		-0.1340
36	WD	EL	1	-0.1052774D+00	-0.3143389D-03	0.6009467D+00	-0.1752	-0.0681	-0.0694	-0.0740	-0.0750
						0.6008844D+00	-0.1752		-0.0509		-0.0550
									0.0186		0.0201
37	SAT	EL	1	-0.1080035D+00	-0.1205227D-03	0.3051952D+00	-0.3539	-0.0460	-0.0469	-0.0499	-0.0505
						0.3051650D+00	-0.3539		-0.0344		-0.0371
									0.0126		0.0135
38	SHD	EL	1	-0.1552579D-01	-0.1388212D-03	0.2195450D+00	-0.0707	-0.0069	-0.0071	-0.0075	-0.0076
						0.2194087D+00	-0.0708		-0.0052		-0.0056
									0.0019		0.0020
39	constant	NL	0	0.3141541D+02	-0.6724117D-04	0.5161662D+02	0.6086	9.0497	9.2235	9.8138	9.9476
						0.4222191D+02	0.7441		6.7643		7.2948
									-2.4722		-2.6653
Autocorrelation											
40	rho 2			-0.5045654D-01	0.8069396D-06	0.6213898D-01	-0.8120				
						0.6206544D-01	-0.8130				
41	rho 3			-0.9146977D-02	-0.6982424D-06	0.6823486D-01	-0.1341				
						0.6822874D-01	-0.1341				
42	rho 4			-0.1917951D+00	-0.2761215D-05	0.6704310D-01	-2.8608				
						0.6698430D-01	-2.8633				
43	rho 5			-0.5325102D-01	-0.1747276D-05	0.7350068D-01	-0.7245				
						0.7030765D-01	-0.7574				
44	rho 7			-0.1500046D+00	-0.1265008D-06	0.7171873D-01	-2.0916				
						0.7040557D-01	-2.1306				
45	rho 8			-0.1459208D+00	0.1777533D-05	0.7394020D-01	-1.9735				
						0.7339900D-01	-1.9880				
46	rho 11			-0.8477167D-01	0.6350024D-07	0.7550501D-01	-1.1227				
						0.7527251D-01	-1.1262				
47	rho 12			0.1663016D+00	0.1762780D-05	0.6520137D-01	2.5506				
						0.6511020D-01	2.5542				
48	rho 13			-0.1338442D+00	0.2782239D-07	0.6375006D-01	-2.0995				
						0.6373699D-01	-2.0999				
Box-cox on (x)											
49	lambda(x) 1 = lambda(y)			0.2662837D+00	-0.1383399D-01	0.8160798D-01	3.2630				
							-8.9907				
Residual (w)											

50 error variance	0.2022303D+00	-0.1376677D-13	0.1500676D+00	1.3476
			0.1953350D-01	10.3530

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.1024330D+02	0.9658291D+01	0.9374121D+00	-0.7610062D-02
2 LVCEI	-0.4913370D+01	-0.4632762D+01	-0.4496456D+00	0.3650295D-02
3 P08PC	-0.1158175D+01	-0.1092030D+01	-0.1059900D+00	0.8604438D-03
4 PTDEM	-0.1001871D+02	-0.9446530D+01	-0.9168591D+00	0.7443209D-02
5 NCR0UT04	-0.6221442D+01	-0.5866129D+01	-0.5693533D+00	0.4622102D-02
6 GRPOL	-0.1124490D+01	-0.1060269D+01	-0.1029074D+00	0.8354184D-03
7 STR813	0.7673770D+00	0.7235513D+00	0.7022627D-01	-0.5701081D-03
8 STRP	-0.6355867D+00	-0.5992877D+00	-0.5816552D-01	0.4721970D-03
9 STRCUQ	-0.3775375D+00	-0.3559759D+00	-0.3455023D-01	0.2804843D-03
10 GRVOY	-0.7028782D-01	-0.6627360D-01	-0.6432368D-02	0.5221900D-04
11 AUTPKRP	0.1553702D+02	0.1464969D+02	0.1421866D+01	-0.1154294D-01
12 GRMUMH	-0.2950471D+00	-0.2781966D+00	-0.2700114D-01	0.2191996D-03
13 TLK822	-0.8174565D-01	-0.7707707D-01	-0.7480928D-02	0.6073138D-04
14 RFK822	-0.1962490D-01	-0.1850410D-01	-0.1795966D-02	0.1457994D-04
15 SFK822	0.8096444D+00	0.7634047D+00	0.7409436D-01	-0.6015099D-03
16 CSFMR822	-0.4909130D+00	-0.4628764D+00	-0.4492575D-01	0.3647145D-03
17 LOIIND61	-0.3703636D+01	-0.3492118D+01	-0.3389371D+00	0.2751546D-02
18 LOIAS	0.3674762D+01	0.3464893D+01	0.3362947D+00	-0.2730095D-02
19 MOP62	0.4812125D+02	0.4537299D+02	0.4403801D+01	-0.3575076D-01
20 PRMVACR1	0.1433677D+06	0.1351798D+06	0.1312025D+05	-0.1065123D+03
21 KMPARR1	0.2456003D-07	0.2315738D-07	0.2247604D-08	-0.1824641D-10
22 DICR1	0.7410353D-07	0.6987140D-07	0.6781561D-08	-0.5505381D-10
23 PGRPKM	-0.5292060D+03	-0.4989825D+03	-0.4843012D+02	0.3931635D+00
24 PDRQ	-0.2001101D+04	-0.1886816D+04	-0.1831301D+03	0.1486680D+01
25 ENTRNMDC	-0.1703082D+01	-0.1605817D+01	-0.1558571D+00	0.1265273D-02
26 PPAS	0.9816890D+03	0.9256237D+03	0.8983896D+02	-0.7293272D+00
27 SURPOL	-0.5181216D+01	-0.4885311D+01	-0.4741574D+00	0.3849286D-02
28 PERPA	0.4990715D+02	0.4705690D+02	0.4567238D+01	-0.3707757D-01
29 PRCHOM	-0.5537940D+03	-0.5221662D+03	-0.5068029D+02	0.4114307D+00
30 PRFEVM	-0.2146067D+04	-0.2023503D+04	-0.1963967D+03	0.1594380D+01
31 HEUHM	0.1612182D+01	0.1520108D+01	0.1475383D+00	-0.1197740D-02
32 PRMED	0.4046110D+01	0.3815033D+01	0.3702785D+00	-0.3005981D-02
33 PRALT	-0.3812892D+02	-0.3595133D+02	-0.3489356D+01	0.2832715D-01
34 PRMTRAR1	0.5191878D+06	0.4895365D+06	0.4751331D+05	-0.3857207D+03
35 PRMMAGR1	0.3332101D+03	0.3141801D+03	0.3049362D+02	-0.2475521D+00
36 WD	-0.3496569D+00	-0.3296877D+00	-0.3199875D-01	0.2597710D-03
37 SAT	-0.1133761D+01	-0.1069011D+01	-0.1037558D+00	0.8423063D-03
38 SHD	-0.1423606D+00	-0.1342302D+00	-0.1302808D-01	0.1057641D-03
39 constant	0.9692864D+03	0.9139294D+03	0.8870395D+02	-0.7201129D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
-----------	------	----------	----------

```

=====
E(y)          0.1000D+01  0.1030D+02 -0.1269D+04
SIGMA(y)      0.9706D-01  0.1000D+01 -0.1232D+03
GAMMA(y)      -0.7879D-03 -0.8118D-02  0.1000D+01

```

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

```

=====
row / col     E(y)          SIGMA(y)      GAMMA(y)
=====
E(y)          0.1000D+01  0.1364D+01 -0.3731D+01
SIGMA(y)      0.7334D+00  0.1000D+01 -0.2736D+01
GAMMA(y)      -0.2680D+00 -0.3655D+00  0.1000D+01

```

MRS of X(l) with respect to X(k) at the sample means

```

=====
X(k) DISCEIN  LVCEI    P08PC    PTDEM    NCROUT04  GRPOL    STR813    STRP    STRCUQ    GRVOY
=====
X(l)
=====
DISCEIN      0.1000D+01 -0.4797D+00 -0.1131D+00 -0.9781D+00 -0.6074D+00 -0.1098D+00  0.7492D-01 -0.6205D-01 -0.3686D-01 -0.6862D-02
LVCEI       -0.2085D+01  0.1000D+01  0.2357D+00  0.2039D+01  0.1266D+01  0.2289D+00 -0.1562D+00  0.1294D+00  0.7684D-01  0.1431D-01
P08PC       -0.8844D+01  0.4242D+01  0.1000D+01  0.8650D+01  0.5372D+01  0.9709D+00 -0.6626D+00  0.5488D+00  0.3260D+00  0.6069D-01
PTDEM       -0.1022D+01  0.4904D+00  0.1156D+00  0.1000D+01  0.6210D+00  0.1122D+00 -0.7659D-01  0.6344D-01  0.3768D-01  0.7016D-02
NCROUT04    -0.1646D+01  0.7897D+00  0.1862D+00  0.1610D+01  0.1000D+01  0.1807D+00 -0.1233D+00  0.1022D+00  0.6068D-01  0.1130D-01
GRPOL       -0.9109D+01  0.4369D+01  0.1030D+01  0.8910D+01  0.5533D+01  0.1000D+01 -0.6824D+00  0.5652D+00  0.3357D+00  0.6251D-01
STR813      0.1335D+02 -0.6403D+01 -0.1509D+01 -0.1306D+02 -0.8107D+01 -0.1465D+01  0.1000D+01 -0.8283D+00 -0.4920D+00 -0.9159D-01
STRP       -0.1612D+02  0.7730D+01  0.1822D+01  0.1576D+02  0.9789D+01  0.1769D+01 -0.1207D+01  0.1000D+01  0.5940D+00  0.1106D+00
STRCUQ      -0.2713D+02  0.1301D+02  0.3068D+01  0.2654D+02  0.1648D+02  0.2978D+01 -0.2033D+01  0.1684D+01  0.1000D+01  0.1862D+00
GRVOY       -0.1457D+03  0.6990D+02  0.1648D+02  0.1425D+03  0.8851D+02  0.1600D+02 -0.1092D+02  0.9043D+01  0.5371D+01  0.1000D+01
AUTPKRP     0.6593D+00 -0.3162D+00 -0.7454D-01 -0.6448D+00 -0.4004D+00 -0.7237D-01  0.4939D-01 -0.4091D-01 -0.2430D-01 -0.4524D-02
GRMUMH      -0.3472D+02  0.1665D+02  0.3925D+01  0.3396D+02  0.2109D+02  0.3811D+01 -0.2601D+01  0.2154D+01  0.1280D+01  0.2382D+00
TLK822     -0.1253D+03  0.6011D+02  0.1417D+02  0.1226D+03  0.7611D+02  0.1376D+02 -0.9387D+01  0.7775D+01  0.4618D+01  0.8598D+00
RFK822     -0.5220D+03  0.2504D+03  0.5902D+02  0.5105D+03  0.3170D+03  0.5730D+02 -0.3910D+02  0.3239D+02  0.1924D+02  0.3582D+01
SFK822      0.1265D+02 -0.6069D+01 -0.1430D+01 -0.1237D+02 -0.7684D+01 -0.1389D+01  0.9478D+00 -0.7850D+00 -0.4663D+00 -0.8681D-01
CSFMR822   -0.2087D+02  0.1001D+02  0.2359D+01  0.2041D+02  0.1267D+02  0.2291D+01 -0.1563D+01  0.1295D+01  0.7691D+00  0.1432D+00
LOIIND61   -0.2766D+01  0.1327D+01  0.3127D+00  0.2705D+01  0.1680D+01  0.3036D+00 -0.2072D+00  0.1716D+00  0.1019D+00  0.1898D-01
LOIAS      0.2787D+01 -0.1337D+01 -0.3152D+00 -0.2726D+01 -0.1693D+01 -0.3060D+00  0.2088D+00 -0.1730D+00 -0.1027D+00 -0.1913D-01
MOP62      0.2129D+00 -0.1021D+00 -0.2407D-01 -0.2082D+00 -0.1293D+00 -0.2337D-01  0.1595D-01 -0.1321D-01 -0.7846D-02 -0.1461D-02
PRMVACR1    0.7145D-04 -0.3427D-04 -0.8078D-05 -0.6988D-04 -0.4340D-04 -0.7843D-05  0.5353D-05 -0.4433D-05 -0.2633D-05 -0.4903D-06
KMPARR1     0.4171D+09 -0.2001D+09 -0.4716D+08 -0.4079D+09 -0.2533D+09 -0.4579D+08  0.3124D+08 -0.2588D+08 -0.1537D+08 -0.2862D+07
DICR1       0.1382D+09 -0.6630D+08 -0.1563D+08 -0.1352D+09 -0.8396D+08 -0.1517D+08  0.1036D+08 -0.8577D+07 -0.5095D+07 -0.9485D+06
PGRPKM     -0.1936D-01  0.9284D-02  0.2189D-02  0.1893D-01  0.1176D-01  0.2125D-02 -0.1450D-02  0.1201D-02  0.7134D-03  0.1328D-03
PDRQ       -0.5119D-02  0.2455D-02  0.5788D-03  0.5007D-02  0.3109D-02  0.5619D-03 -0.3835D-03  0.3176D-03  0.1887D-03  0.3512D-04
ENTRNMDC   -0.6015D+01  0.2885D+01  0.6800D+00  0.5883D+01  0.3653D+01  0.6603D+00 -0.4506D+00  0.3732D+00  0.2217D+00  0.4127D-01
PPAS       0.1043D-01 -0.5005D-02 -0.1180D-02 -0.1021D-01 -0.6337D-02 -0.1145D-02  0.7817D-03 -0.6474D-03 -0.3846D-03 -0.7160D-04
SURPOL     -0.1977D+01  0.9483D+00  0.2235D+00  0.1934D+01  0.1201D+01  0.2170D+00 -0.1481D+00  0.1227D+00  0.7287D-01  0.1357D-01
PERPA      0.2052D+00 -0.9845D-01 -0.2321D-01 -0.2007D+00 -0.1247D+00 -0.2253D-01  0.1538D-01 -0.1274D-01 -0.7565D-02 -0.1408D-02
PRCHOM     -0.1850D-01  0.8872D-02  0.2091D-02  0.1809D-01  0.1123D-01  0.2031D-02 -0.1386D-02  0.1148D-02  0.6817D-03  0.1269D-03
PRFEVM     -0.4773D-02  0.2289D-02  0.5397D-03  0.4668D-02  0.2899D-02  0.5240D-03 -0.3576D-03  0.2962D-03  0.1759D-03  0.3275D-04
HEUHM      0.6354D+01 -0.3048D+01 -0.7184D+00 -0.6214D+01 -0.3859D+01 -0.6975D+00  0.4760D+00 -0.3942D+00 -0.2342D+00 -0.4360D-01
PRMED      0.2532D+01 -0.1214D+01 -0.2862D+00 -0.2476D+01 -0.1538D+01 -0.2779D+00  0.1897D+00 -0.1571D+00 -0.9331D-01 -0.1737D-01
PRALT      -0.2686D+00  0.1289D+00  0.3038D-01  0.2628D+00  0.1632D+00  0.2949D-01 -0.2013D-01  0.1667D-01  0.9902D-02  0.1843D-02
PRMTRAR1    0.1973D-04 -0.9464D-05 -0.2231D-05 -0.1930D-04 -0.1198D-04 -0.2166D-05  0.1478D-05 -0.1224D-05 -0.7272D-06 -0.1354D-06
PRMMAGR1    0.3074D-01 -0.1475D-01 -0.3476D-02 -0.3007D-01 -0.1867D-01 -0.3375D-02  0.2303D-02 -0.1907D-02 -0.1133D-02 -0.2109D-03
WD         -0.2930D+02  0.1405D+02  0.3312D+01  0.2865D+02  0.1779D+02  0.3216D+01 -0.2195D+01  0.1818D+01  0.1080D+01  0.2010D+00

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SAT	-0.9035D+01	0.4334D+01	0.1022D+01	0.8837D+01	0.5487D+01	0.9918D+00	-0.6768D+00	0.5606D+00	0.3330D+00	0.6200D-01
SHD	-0.7195D+02	0.3451D+02	0.8136D+01	0.7038D+02	0.4370D+02	0.7899D+01	-0.5390D+01	0.4465D+01	0.2652D+01	0.4937D+00
constant	0.1057D-01	-0.5069D-02	-0.1195D-02	-0.1034D-01	-0.6419D-02	-0.1160D-02	0.7917D-03	-0.6557D-03	-0.3895D-03	-0.7252D-04
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
X(l)										
DISCEIN	0.1517D+01	-0.2880D-01	-0.7980D-02	-0.1916D-02	0.7904D-01	-0.4793D-01	-0.3616D+00	0.3587D+00	0.4698D+01	0.1400D+05
LVCEI	-0.3162D+01	0.6005D-01	0.1664D-01	0.3994D-02	-0.1648D+00	0.9991D-01	0.7538D+00	-0.7479D+00	-0.9794D+01	-0.2918D+05
P08PC	-0.1342D+02	0.2548D+00	0.7058D-01	0.1694D-01	-0.6991D+00	0.4239D+00	0.3198D+01	-0.3173D+01	-0.4155D+02	-0.1238D+06
PTDEM	-0.1551D+01	0.2945D-01	0.8159D-02	0.1959D-02	-0.8081D-01	0.4900D-01	0.3697D+00	-0.3668D+00	-0.4803D+01	-0.1431D+05
NCROUT04	-0.2497D+01	0.4742D-01	0.1314D-01	0.3154D-02	-0.1301D+00	0.7891D-01	0.5953D+00	-0.5907D+00	-0.7735D+01	-0.2304D+05
GRPOL	-0.1382D+02	0.2624D+00	0.7270D-01	0.1745D-01	-0.7200D+00	0.4366D+00	0.3294D+01	-0.3268D+01	-0.4279D+02	-0.1275D+06
STR813	0.2025D+02	-0.3845D+00	-0.1065D+00	-0.2557D-01	0.1055D+01	-0.6397D+00	-0.4826D+01	0.4789D+01	0.6271D+02	0.1868D+06
STRP	-0.2445D+02	0.4642D+00	0.1286D+00	0.3088D-01	-0.1274D+01	0.7724D+00	0.5827D+01	-0.5782D+01	-0.7571D+02	-0.2256D+06
STRCUQ	-0.4115D+02	0.7815D+00	0.2165D+00	0.5198D-01	-0.2145D+01	0.1300D+01	0.9810D+01	-0.9734D+01	-0.1275D+03	-0.3797D+06
GRVOY	-0.2210D+03	0.4198D+01	0.1163D+01	0.2792D+00	-0.1152D+02	0.6984D+01	0.5269D+02	-0.5228D+02	-0.6846D+03	-0.2040D+07
AUTPKRP	0.1000D+01	-0.1899D-01	-0.5261D-02	-0.1263D-02	0.5211D-01	-0.3160D-01	-0.2384D+00	0.2365D+00	0.3097D+01	0.9227D+04
GRMUMH	-0.5266D+02	0.1000D+01	0.2771D+00	0.6651D-01	-0.2744D+01	0.1664D+01	0.1255D+02	-0.1245D+02	-0.1631D+03	-0.4859D+06
TLK822	-0.1901D+03	0.3609D+01	0.1000D+01	0.2401D+00	-0.9904D+01	0.6005D+01	0.4531D+02	-0.4495D+02	-0.5887D+03	-0.1754D+07
RFK822	-0.7917D+03	0.1503D+02	0.4165D+01	0.1000D+01	-0.4126D+02	0.2501D+02	0.1887D+03	-0.1873D+03	-0.2452D+04	-0.7305D+07
SFK822	0.1919D+02	-0.3644D+00	-0.1010D+00	-0.2424D-01	0.1000D+01	-0.6063D+00	-0.4574D+01	0.4539D+01	0.5944D+02	0.1771D+06
CSFMR822	-0.3165D+02	0.6010D+00	0.1665D+00	0.3998D-01	-0.1649D+01	0.1000D+01	0.7544D+01	-0.7486D+01	-0.9802D+02	-0.2920D+06
LOIIND61	-0.4195D+01	0.7966D-01	0.2207D-01	0.5299D-02	-0.2186D+00	0.1325D+00	0.1000D+01	-0.9922D+00	-0.1299D+02	-0.3871D+05
LOIAS	0.4228D+01	-0.8029D-01	-0.2225D-01	-0.5340D-02	0.2203D+00	-0.1336D+00	-0.1008D+01	0.1000D+01	0.1310D+02	0.3901D+05
MOP62	0.3229D+00	-0.6131D-02	-0.1699D-02	-0.4078D-03	0.1683D-01	-0.1020D-01	-0.7696D-01	0.7636D-01	0.1000D+01	0.2979D+04
PRMVACR1	0.1084D-03	-0.2058D-05	-0.5702D-06	-0.1369D-06	0.5647D-05	-0.3424D-05	-0.2583D-04	0.2563D-04	0.3356D-03	0.1000D+01
KMPARR1	0.6326D+09	-0.1201D+08	-0.3328D+07	-0.7991D+06	0.3297D+08	-0.1999D+08	-0.1508D+09	0.1496D+09	0.1959D+10	0.5837D+13
DICR1	0.2097D+09	-0.3982D+07	-0.1103D+07	-0.2648D+06	0.1093D+08	-0.6625D+07	-0.4998D+08	0.4959D+08	0.6494D+09	0.1935D+13
PGRPKM	-0.2936D-01	0.5575D-03	0.1545D-03	0.3708D-04	-0.1530D-02	0.9276D-03	0.6998D-02	-0.6944D-02	-0.9093D-01	-0.2709D+03
PDRQ	-0.7764D-02	0.1474D-03	0.4085D-04	0.9807D-05	-0.4046D-03	0.2453D-03	0.1851D-02	-0.1836D-02	-0.2405D-01	-0.7164D+02
ENTRNMDC	-0.9123D+01	0.1732D+00	0.4800D-01	0.1152D-01	-0.4754D+00	0.2882D+00	0.2175D+01	-0.2158D+01	-0.2826D+02	-0.8418D+05
PPAS	0.1583D-01	-0.3006D-03	-0.8327D-04	-0.1999D-04	0.8247D-03	-0.5001D-03	-0.3773D-02	0.3743D-02	0.4902D-01	0.1460D+03
SURPOL	-0.2999D+01	0.5695D-01	0.1578D-01	0.3788D-02	-0.1563D+00	0.9475D-01	0.7148D+00	-0.7092D+00	-0.9288D+01	-0.2767D+05
PERPA	0.3113D+00	-0.5912D-02	-0.1638D-02	-0.3932D-03	0.1622D-01	-0.9837D-02	-0.7421D-01	0.7363D-01	0.9642D+00	0.2873D+04
PRCHOM	-0.2806D-01	0.5328D-03	0.1476D-03	0.3544D-04	-0.1462D-02	0.8865D-03	0.6688D-02	-0.6636D-02	-0.6889D-01	-0.2589D+03
PRFEVM	-0.7240D-02	0.1375D-03	0.3809D-04	0.9145D-05	-0.3773D-03	0.2288D-03	0.1726D-02	-0.1712D-02	-0.2242D-01	-0.6680D+02
HEUHM	0.9637D+01	-0.1830D+00	-0.5070D-01	-0.1217D-01	0.5022D+00	-0.3045D+00	-0.2297D+01	0.2279D+01	0.2985D+02	0.8893D+05
PRMED	0.3840D+01	-0.7292D-01	-0.2020D-01	-0.4850D-02	0.2001D+00	-0.1213D+00	-0.9154D+00	0.9082D+00	0.1189D+02	0.3543D+05
PRALT	-0.4075D+00	0.7738D-02	0.2144D-02	0.5147D-03	-0.2123D-01	0.1288D-01	0.9713D-01	-0.9638D-01	-0.1262D+01	-0.3760D+04
PRMTRAR1	0.2993D-04	-0.5683D-06	-0.1574D-06	-0.3780D-07	0.1559D-05	-0.9455D-06	-0.7134D-05	0.7078D-05	0.9269D-04	0.2761D+00
PRMMAGR1	0.4663D-01	-0.8855D-03	-0.2453D-03	-0.5890D-04	0.2430D-02	-0.1473D-02	-0.1112D-01	0.1103D-01	0.1444D+00	0.4303D+03
WD	-0.4444D+02	0.8438D+00	0.2338D+00	0.5613D-01	-0.2316D+01	0.1404D+01	0.1059D+02	-0.1051D+02	-0.1376D+03	-0.4100D+06
SAT	-0.1370D+02	0.2602D+00	0.7210D-01	0.1731D-01	-0.7141D+00	0.4330D+00	0.3267D+01	-0.3241D+01	-0.4244D+02	-0.1265D+06
SHD	-0.1091D+03	0.2073D+01	0.5742D+00	0.1379D+00	-0.5687D+01	0.3448D+01	0.2602D+02	-0.2581D+02	-0.3380D+03	-0.1007D+07
constant	0.1603D-01	-0.3044D-03	-0.8434D-04	-0.2025D-04	0.8353D-03	-0.5065D-03	-0.3821D-02	0.3791D-02	0.4965D-01	0.1479D+03
X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
X(l)										
DISCEIN	0.2398D-08	0.7234D-08	-0.5166D+02	-0.1954D+03	-0.1663D+00	0.9584D+02	-0.5058D+00	0.4872D+01	-0.5406D+02	-0.2095D+03
LVCEI	-0.4999D-08	-0.1508D-07	0.1077D+03	0.4073D+03	0.3466D+00	-0.1998D+03	0.1055D+01	-0.1016D+02	0.1127D+03	0.4368D+03
P08PC	-0.2121D-07	-0.6398D-07	0.4569D+03	0.1728D+04	0.1470D+01	-0.8476D+03	0.4474D+01	-0.4309D+02	0.4782D+03	0.1853D+04
PTDEM	-0.2451D-08	-0.7397D-08	0.5282D+02	0.1997D+03	0.1700D+00	-0.9799D+02	0.5172D+00	-0.4981D+01	0.5528D+02	0.2142D+03

NCROUT04	-0.3948D-08	-0.1191D-07	0.8506D+02	0.3216D+03	0.2737D+00	-0.1578D+03	0.8328D+00	-0.8022D+01	0.8901D+02	0.3449D+03
GRPOL	-0.2184D-07	-0.6590D-07	0.4706D+03	0.1780D+04	0.1515D+01	-0.8730D+03	0.4608D+01	-0.4438D+02	0.4925D+03	0.1908D+04
STR813	0.3201D-07	0.9657D-07	-0.6896D+03	-0.2608D+04	-0.2219D+01	0.1279D+04	-0.6752D+01	0.6504D+02	-0.7217D+03	-0.2797D+04
STRP	-0.3864D-07	-0.1166D-06	0.8326D+03	0.3148D+04	0.2680D+01	-0.1545D+04	0.8152D+01	-0.7852D+02	0.8713D+03	0.3377D+04
STRCUQ	-0.6505D-07	-0.1963D-06	0.1402D+04	0.5300D+04	0.4511D+01	-0.2600D+04	0.1372D+02	-0.1322D+03	0.1467D+04	0.5684D+04
GRVOY	-0.3494D-06	-0.1054D-05	0.7529D+04	0.2847D+05	0.2423D+02	-0.1397D+05	0.7371D+02	-0.7100D+03	0.7879D+04	0.3053D+05
AUTPKRP	0.1581D-08	0.4769D-08	-0.3406D+02	-0.1288D+03	-0.1096D+00	0.6318D+02	-0.3335D+00	0.3212D+01	-0.3564D+02	-0.1381D+03
GRMUMH	-0.8324D-07	-0.2512D-06	0.1794D+04	0.6782D+04	0.5772D+01	-0.3327D+04	0.1756D+02	-0.1691D+03	0.1877D+04	0.7274D+04
TLK822	-0.3004D-06	-0.9065D-06	0.6474D+04	0.2448D+05	0.2083D+02	-0.1201D+05	0.6338D+02	-0.6105D+03	0.6775D+04	0.2625D+05
RFK822	-0.1251D-05	-0.3776D-05	0.2697D+05	0.1020D+06	0.8678D+02	-0.5002D+05	0.2640D+03	-0.2543D+04	0.2822D+05	0.1094D+06
SFK822	0.3033D-07	0.9153D-07	-0.6536D+03	-0.2472D+04	-0.2103D+01	0.1212D+04	-0.6399D+01	0.6164D+02	-0.6840D+03	-0.2651D+04
CSFMR822	-0.5003D-07	-0.1510D-06	0.1078D+04	0.4076D+04	0.3469D+01	-0.2000D+04	0.1055D+02	-0.1017D+03	0.1128D+04	0.4372D+04
LOIIND61	-0.6631D-08	-0.2001D-07	0.1429D+03	0.5403D+03	0.4598D+00	-0.2651D+03	0.1399D+01	-0.1348D+02	0.1495D+03	0.5794D+03
LOIAS	0.6683D-08	0.2017D-07	-0.1440D+03	-0.5446D+03	-0.4635D+00	0.2671D+03	-0.1410D+01	0.1358D+02	-0.1507D+03	-0.5840D+03
MOP62	0.5104D-09	0.1540D-08	-0.1100D+02	-0.4158D+02	-0.3539D-01	0.2040D+02	-0.1077D+00	0.1037D+01	-0.1151D+02	-0.4460D+02
PRMVACR1	0.1713D-12	0.5169D-12	-0.3691D-02	-0.1396D-01	-0.1188D-04	0.6847D-02	-0.3614D-04	0.3481D-03	-0.3863D-02	-0.1497D-01
KMPARR1	0.1000D+01	0.3017D+01	-0.2155D+11	-0.8148D+11	-0.6934D+08	0.3997D+11	-0.2110D+09	0.2032D+10	-0.2255D+11	-0.8738D+11
DICR1	0.3314D+00	0.1000D+01	-0.7141D+10	-0.2700D+11	-0.2298D+08	0.1325D+11	-0.6992D+08	0.6735D+09	-0.7473D+10	-0.2896D+11
PGRPKM	-0.4641D-10	-0.1400D-09	0.1000D+01	0.3781D+01	0.3218D-02	-0.1855D+01	0.9791D-02	-0.9431D-01	0.1046D+01	0.4055D+01
PDRQ	-0.1227D-10	-0.3703D-10	0.2645D+00	0.1000D+01	0.8511D-03	-0.4906D+00	0.2589D-02	-0.2494D-01	0.2767D+00	0.1072D+01
ENTRNMDC	-0.1442D-07	-0.4351D-07	0.3107D+03	0.1175D+04	0.1000D+01	-0.5764D+03	0.3042D+01	-0.2930D+02	0.3252D+03	0.1260D+04
PPAS	0.2502D-10	0.7549D-10	-0.5391D+00	-0.2038D+01	-0.1735D-02	0.1000D+01	-0.5278D-02	0.5084D-01	-0.5641D+00	-0.2186D+01
SURPOL	-0.4740D-08	-0.1430D-07	0.1021D+03	0.3862D+03	0.3287D+00	-0.1895D+03	0.1000D+01	-0.9632D+01	0.1069D+03	0.4142D+03
PERPA	0.4921D-09	0.1485D-08	-0.1060D+02	-0.4010D+02	-0.3413D-01	0.1967D+02	-0.1038D+00	0.1000D+01	-0.1110D+02	-0.4300D+02
PRCHOM	-0.4435D-10	-0.1338D-09	0.9556D+00	0.3613D+01	0.3075D-02	-0.1773D+01	0.9356D-02	-0.9012D-01	0.1000D+01	0.3875D+01
PRFEVM	-0.1144D-10	-0.3453D-10	0.2466D+00	0.9325D+00	0.7936D-03	-0.4574D+00	0.2414D-02	-0.2326D-01	0.2581D+00	0.1000D+01
HEUHM	0.1523D-07	0.4596D-07	-0.3283D+03	-0.1241D+04	-0.1056D+01	0.6089D+03	-0.3214D+01	0.3096D+02	-0.3435D+03	-0.1331D+04
PRMED	0.6070D-08	0.1831D-07	-0.1308D+03	-0.4946D+03	-0.4209D+00	0.2426D+03	-0.1281D+01	0.1233D+02	-0.1369D+03	-0.5304D+03
PRALT	-0.6441D-09	-0.1943D-08	0.1388D+02	0.5248D+02	0.4467D-01	-0.2575D+02	0.1359D+00	-0.1309D+01	0.1452D+02	0.5628D+02
PRMTRAR1	0.4730D-13	0.1427D-12	-0.1019D-02	-0.3854D-02	-0.3280D-05	0.1891D-02	-0.9979D-05	0.9613D-04	-0.1067D-02	-0.4134D-02
PRMMAGR1	0.7371D-10	0.2224D-09	-0.1588D+01	-0.6006D+01	-0.5111D-02	0.2946D+01	-0.1555D-01	0.1498D+00	-0.1662D+01	-0.6441D+01
WD	-0.7024D-07	-0.2119D-06	0.1514D+04	0.5723D+04	0.4871D+01	-0.2808D+04	0.1482D+02	-0.1427D+03	0.1584D+04	0.6138D+04
SAT	-0.2166D-07	-0.6536D-07	0.4668D+03	0.1765D+04	0.1502D+01	-0.8659D+03	0.4570D+01	-0.4402D+02	0.4885D+03	0.1893D+04
SHD	-0.1725D-06	-0.5205D-06	0.3717D+04	0.1406D+05	0.1196D+02	-0.6896D+04	0.3640D+02	-0.3506D+03	0.3890D+04	0.1507D+05
constant	0.2534D-10	0.7645D-10	-0.5460D+00	-0.2065D+01	-0.1757D-02	0.1013D+01	-0.5345D-02	0.5149D-01	-0.5713D+00	-0.2214D+01
=====										
X (k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
=====										
X (l)										
=====										
DISCEIN	0.1574D+00	0.3950D+00	-0.3722D+01	0.5069D+05	0.3253D+02	-0.3414D-01	-0.1107D+00	-0.1390D-01	0.9463D+02	
LVCEI	-0.3281D+00	-0.8235D+00	0.7760D+01	-0.1057D+06	-0.6782D+02	0.7116D-01	0.2308D+00	0.2897D-01	-0.1973D+03	
P08PC	-0.1392D+01	-0.3494D+01	0.3292D+02	-0.4483D+06	-0.2877D+03	0.3019D+00	0.9789D+00	0.1229D+00	-0.8369D+03	
PTDEM	-0.1609D+00	-0.4039D+00	0.3806D+01	-0.5182D+05	-0.3326D+02	0.3490D-01	0.1132D+00	0.1421D-01	-0.9675D+02	
NCROUT04	-0.2591D+00	-0.6503D+00	0.6129D+01	-0.8345D+05	-0.5356D+02	0.5620D-01	0.1822D+00	0.2288D-01	-0.1558D+03	
GRPOL	-0.1434D+01	-0.3598D+01	0.3391D+02	-0.4617D+06	-0.2963D+03	0.3109D+00	0.1008D+01	0.1266D+00	-0.8620D+03	
STR813	0.2101D+01	0.5273D+01	-0.4969D+02	0.6766D+06	0.4342D+03	-0.4557D+00	-0.1477D+01	-0.1855D+00	0.1263D+04	
STRP	-0.2537D+01	-0.6366D+01	0.5999D+02	-0.8169D+06	-0.5243D+03	0.5501D+00	0.1784D+01	0.2240D+00	-0.1525D+04	
STRCUQ	-0.4270D+01	-0.1072D+02	0.1010D+03	-0.1375D+07	-0.8826D+03	0.9262D+00	0.3003D+01	0.3771D+00	-0.2567D+04	
GRVOY	-0.2294D+02	-0.5756D+02	0.5425D+03	-0.7387D+07	-0.4741D+04	0.4975D+01	0.1613D+02	0.2025D+01	-0.1379D+05	
AUTPKRP	0.1038D+00	0.2604D+00	-0.2454D+01	0.3342D+05	0.2145D+02	-0.2250D-01	-0.7297D-01	-0.9163D-02	0.6239D+02	
GRMUMH	-0.5464D+01	-0.1371D+02	0.1292D+03	-0.1760D+07	-0.1129D+04	0.1185D+01	0.3843D+01	0.4825D+00	-0.3285D+04	
TLK822	-0.1972D+02	-0.4950D+02	0.4664D+03	-0.6351D+07	-0.4076D+04	0.4277D+01	0.1387D+02	0.1742D+01	-0.1186D+05	

RFK822	-0.8215D+02	-0.2062D+03	0.1943D+04	-0.2646D+08	-0.1698D+05	0.1782D+02	0.5777D+02	0.7254D+01	-0.4939D+05
SFK822	0.1991D+01	0.4997D+01	-0.4709D+02	0.6413D+06	0.4116D+03	-0.4319D+00	-0.1400D+01	-0.1758D+00	0.1197D+04
CSFMR822	-0.3284D+01	-0.8242D+01	0.7767D+02	-0.1058D+07	-0.6788D+03	0.7123D+00	0.2309D+01	0.2900D+00	-0.1974D+04
LOIIND61	-0.4353D+00	-0.1092D+01	0.1029D+02	-0.1402D+06	-0.8997D+02	0.9441D-01	0.3061D+00	0.3844D-01	-0.2617D+03
LOIAS	0.4387D+00	0.1101D+01	-0.1038D+02	0.1413D+06	0.9068D+02	-0.9515D-01	-0.3085D+00	-0.3874D-01	0.2638D+03
MOP62	0.3350D-01	0.8408D-01	-0.7924D+00	0.1079D+05	0.6924D+01	-0.7266D-02	-0.2356D-01	-0.2958D-02	0.2014D+02
PRMVACR1	0.1125D-04	0.2822D-04	-0.2660D-03	0.3621D+01	0.2324D-02	-0.2439D-05	-0.7908D-05	-0.9930D-06	0.6761D-02
KMPARR1	0.6564D+08	0.1647D+09	-0.1552D+10	0.2114D+14	0.1357D+11	-0.1424D+08	-0.4616D+08	-0.5796D+07	0.3947D+11
DICR1	0.2176D+08	0.5460D+08	-0.5145D+09	0.7006D+13	0.4497D+10	-0.4718D+07	-0.1530D+08	-0.1921D+07	0.1308D+11
PGRPKM	-0.3046D-02	-0.7646D-02	0.7205D-01	-0.9811D+03	-0.6296D+00	0.6607D-03	0.2142D-02	0.2690D-03	-0.1832D+01
PDRQ	-0.8056D-03	-0.2022D-02	0.1905D-01	-0.2595D+03	-0.1665D+00	0.1747D-03	0.5666D-03	0.7114D-04	-0.4844D+00
ENTRNMDC	-0.9466D+00	-0.2376D+01	0.2239D+02	-0.3049D+06	-0.1957D+03	0.2053D+00	0.6657D+00	0.8359D-01	-0.5691D+03
PPAS	0.1642D-02	0.4122D-02	-0.3884D-01	0.5289D+03	0.3394D+00	-0.3562D-03	-0.1155D-02	-0.1450D-03	0.9874D+00
SURPOL	-0.3112D+00	-0.7809D+00	0.7359D+01	-0.1002D+06	-0.6431D+02	0.6749D-01	0.2188D+00	0.2748D-01	-0.1871D+03
PERPA	0.3230D-01	0.8107D-01	-0.7640D+00	0.1040D+05	0.6677D+01	-0.7006D-02	-0.2272D-01	-0.2853D-02	0.1942D+02
PRCHOM	-0.2911D-02	-0.7306D-02	0.6885D-01	-0.9375D+03	-0.6017D+00	0.6314D-03	0.2047D-02	0.2571D-03	-0.1750D+01
PRFEVM	-0.7512D-03	-0.1885D-02	0.1777D-01	-0.2419D+03	-0.1553D+00	0.1629D-03	0.5283D-03	0.6634D-04	-0.4517D+00
HEUHM	0.1000D+01	0.2510D+01	-0.2365D+02	0.3220D+06	0.2067D+03	-0.2169D+00	-0.7032D+00	-0.8830D-01	0.6012D+03
PRMED	0.3985D+00	0.1000D+01	-0.9424D+01	0.1283D+06	0.8235D+02	-0.8642D-01	-0.2802D+00	-0.3518D-01	0.2396D+03
PRALT	-0.4228D-01	-0.1061D+00	0.1000D+01	-0.1362D+05	-0.8739D+01	0.9170D-02	0.2973D-01	0.3734D-02	-0.2542D+02
PRMTRAR1	0.3105D-05	0.7793D-05	-0.7344D-04	0.1000D+01	0.6418D-03	-0.6735D-06	-0.2184D-05	-0.2742D-06	0.1867D-02
PRMMAGR1	0.4838D-02	0.1214D-01	-0.1144D+00	0.1558D+04	0.1000D+01	-0.1049D-02	-0.3403D-02	-0.4272D-03	0.2909D+01
WD	-0.4611D+01	-0.1157D+02	0.1090D+03	-0.1485D+07	-0.9530D+03	0.1000D+01	0.3242D+01	0.4071D+00	-0.2772D+04
SAT	-0.1422D+01	-0.3569D+01	0.3363D+02	-0.4579D+06	-0.2939D+03	0.3084D+00	0.1000D+01	0.1256D+00	-0.8549D+03
SHD	-0.1132D+02	-0.2842D+02	0.2678D+03	-0.3647D+07	-0.2341D+04	0.2456D+01	0.7964D+01	0.1000D+01	-0.6809D+04
constant	0.1663D-02	0.4174D-02	-0.3934D-01	0.5356D+03	0.3438D+00	-0.3607D-03	-0.1170D-02	-0.1469D-03	0.1000D+01

Log-likelihood

```

- initial value :      -1258.4324
- final value   :      -1194.7628
- ratio test    :           127.3392

```

```

Pearson-r2      :           0.8972
Pearson-r2 bar  :           0.8776
Pseudo-(1)-r2   :           0.9344
Pseudo-(1)-r2 bar :          0.9219
Std-error of (w) :           0.4497

```

```

Number of observations   first-last obs.no.
- sample      :      313          1 -      313
- estimation   :      300         14 -      313

```

CPU TIME: 1.73 sec

Output file 6: COR_bc1au.txt

```

&CARD1
NOBS =      313,
NC    =       14,
NF    =      313,
NFP   =      313,
NOBEL =       12,
NM     =        0,
NSTEP =       500,
EPSI  = 1.000000000000000E-007,
WGHT  = 1.000000000000000

```

```

/
&CARD2
NB      =      38,
NRO     =      12,
NSL     =      20,
NGF     =      0,
MAXF    =      0,
NGV     =      1,
MAXV    =      18,
NLY     =      2,
NDM     =     -1,
NLE     =      0,
ND      =      0
/
&CARD3
NCOR    =      0,
NRES    =      0,
NFW     =      0,
NGUVW   =      0,
NPDQL   =      0,
NCOV    =      0,
NEY     =      0,
VARNAME = co_bclau ,
NVARIANT =      31
/

```

Working space used : 33180 out of 500000

```

autocorrelation of orders:      1      2      3      4
      5      7      8      9     10     11
     12     13
rho initial values:  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000  0.000000000000000E+000  0.000000000000000E+000
0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

```

```

group      1 (estimated lambda(x))
initial value:  1.000000000000000
variable no.
 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

```

```

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value:  1.000000000000000
upper limit for y  0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	COR	0.77500D+03	0.24992D+04	0.52430D+04	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCBI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCR0UT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
22	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
23	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
24	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	PPAS	0.10000D+00	0.15846D+00	0.26970D+00	0
27	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
28	PERFA	0.11028D+01	0.13012D+01	0.14674D+01	0
29	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
30	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
31	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
32	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
33	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
34	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
35	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
36	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
37	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
38	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
39	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)	SIGMA(y)	y(sample)	E(y)	SIGMA(y)
								GAMMA(y)			GAMMA(y)	
							-first obs	14		-first obs	302	
							-last obs	313		-last obs	313	
1 DISCEIN	NL	0	0.3826290D+03	0.4581333D+00	0.5173325D+03	0.7396	0.0687	0.0687	0.0000	0.1353	0.1345	0.0000
								0.2124	0.0000		0.4133	0.0000
2 LVCEI	NL	0	-0.2158436D+03	0.2558333D+00	0.1448746D+03	-1.4899	-0.0216	-0.0216	0.0000	-0.0763	-0.0759	0.0000
								-0.0669	0.0000		-0.2332	0.0000
3 P08PC	NL	0	-0.2188726D+03	0.5233333D+00	0.1515041D+03	-1.4447	-0.0449	-0.0449	0.0000	-0.0774	-0.0769	0.0000
								-0.1388	0.0000		-0.2364	0.0000
4 PTDEM	NL	0	-0.1491121D+03	0.3933333D+00	0.1733803D+03	-0.8600	-0.0230	-0.0230	0.0000	-0.0527	-0.0524	0.0000
								-0.0711	0.0000		-0.1611	0.0000
5 NCR0UT04	NL	0	-0.6224622D+03	0.3000000D-01	0.2234470D+03	-2.7857	-0.0073	-0.0073	0.0000	-0.1651	-0.1641	0.0000
								-0.0226	0.0000		-0.5043	0.0000
6 GRPOL	NL	0	-0.1464197D+03	0.1055554D-01	0.1480794D+03	-0.9888	-0.0006	-0.0006	0.0000	0.0000	0.0000	0.0000
								0.0000	0.0000		0.0000	0.0000
7 STR813	NL	0	0.1198890D+02	0.4733333D+00	0.8771902D+01	1.3667	0.0022	0.0022	0.0000	0.0046	0.0046	0.0000
								0.0069	0.0000		0.0140	0.0000
8 STRP	NL	0	0.3301397D+02	0.1266667D+00	0.1632106D+02	2.0228	0.0016	0.0016	0.0000	0.0078	0.0077	0.0000
								0.0051	0.0000		0.0238	0.0000
9 STRCUQ	NL	0	-0.2689047D+01	0.1300000D+01	0.4334989D+01	-0.6203	-0.0014	-0.0014	0.0000	-0.0012	-0.0012	0.0000
								-0.0042	0.0000		-0.0036	0.0000
10 GRVOY	NL	0	0.1425728D+01	0.7900000D+00	0.5017073D+01	0.2842	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000
								0.0014	0.0000		0.0000	0.0000
11 AUTPKRP	NL	0	0.5998989D+03	0.3251368D+00	0.1135317D+04	0.5284	0.0764	0.0764	0.0000	0.1090	0.1083	0.0000
								0.2363	0.0000		0.3330	0.0000
12 GRMUMH	NL	0	-0.1288098D+02	0.1716667D+00	0.1165044D+02	-1.1056	-0.0009	-0.0009	0.0000	0.0000	0.0000	0.0000
								0.0027	0.0000		0.0000	0.0000
13 TLK822	NL	0	-0.1674108D+01	0.1928373D+03	0.2823810D+00	-5.9285	-0.1265	-0.1265	0.0000	-0.1116	-0.1109	0.0000
								-0.3911	0.0000		-0.3409	0.0000
14 RFK822	NL	0	0.2289586D+02	0.7708521D+00	0.5221779D+02	0.4385	0.0069	0.0069	0.0000	0.0061	0.0061	0.0000
								0.0214	0.0000		0.0187	0.0000
15 SFK822	NL	0	-0.1938486D+01	0.2509268D+01	0.1116819D+02	-0.1736	-0.0019	-0.0019	0.0000	-0.0011	-0.0011	0.0000
								-0.0059	0.0000		-0.0034	0.0000
16 CSFMR822	NL	0	-0.6422952D+01	0.2353299D+02	0.1494532D+01	-4.2976	-0.0592	-0.0592	0.0000	-0.0454	-0.0452	0.0000
								-0.1831	0.0000		-0.1388	0.0000
17 LOIIND61	NL	0	0.4561594D+03	0.8600000D+00	0.1442993D+03	3.1612	0.1537	0.1537	0.0000	0.1613	0.1603	0.0000
								0.4753	0.0000		0.4928	0.0000
18 LOIAS	NL	0	0.6990438D+03	0.1933333D+00	0.1580070D+03	4.4241	0.0529	0.0529	0.0000	0.2472	0.2457	0.0000
								0.1637	0.0000		0.7552	0.0000
19 MOP62	NL	0	0.2250322D+03	0.8200000D+00	0.1515921D+03	1.4845	0.0723	0.0723	0.0000	0.0796	0.0791	0.0000
								0.2236	0.0000		0.2431	0.0000
20 PRMVACR1	NL	0	0.4747344D+07	0.4349227D-04	0.9072582D+06	5.2326	0.0809	0.0809	0.0000	0.0827	0.0822	0.0000
								0.2502	0.0000		0.2526	0.0000
21 KMPARR1	EL	1	0.1264666D-05	0.2620907D+10	0.3620988D-06	3.4926	1.2984	1.2984	0.0001	1.3778	1.3692	0.0001
								4.0159	0.0000		4.2089	0.0000
22 DICR1	EL	1	0.3023686D-06	0.6151215D+08	0.2388292D-05	0.1266	0.0073	0.0073	0.0000	0.0113	0.0113	0.0000
								0.0225	0.0000		0.0346	0.0000
23 PGRPKM	EL	1	-0.1105035D+06	0.1602677D-01	0.3429502D+05	-3.2221	-0.6938	-0.6938	0.0000	-1.0158	-1.0095	0.0000
								-2.1458	0.0000		-3.1032	0.0000
24 PDRQ	EL	1	-0.8129354D+04	0.9268908D-01	0.8614415D+04	-0.9437	-0.2952	-0.2952	0.0000	-0.4312	-0.4285	0.0000
								-0.9129	0.0000		-1.3173	0.0000
25 ENTRNMDC	EL	1	-0.3120468D+02	0.6295400D+02	0.1119741D+02	-2.7868	-0.7696	-0.7696	0.0000	-0.8899	-0.8843	0.0000
								-2.3801	0.0000		-2.7185	0.0000
26 PPAS	EL	1	0.1236643D+05	0.1609208D+00	0.7473710D+04	1.6547	0.7796	0.7795	0.0000	1.1389	1.1318	0.0001
								2.4111	0.0000		3.4793	0.0000
27 SURPOL	EL	1	-0.5742974D+02	0.8257199D+01	0.3914093D+02	-1.4673	-0.1858	-0.1858	0.0000	-0.1564	-0.1554	0.0000
								-0.5745	0.0000		-0.4778	0.0000
28 PERPA	EL	1	0.8661332D+03	0.1297782D+01	0.6299187D+03	1.3750	0.4403	0.4403	0.0000	0.4450	0.4422	0.0000
								1.3619	0.0000		1.3594	0.0000
29 PRCHOM	EL	1	0.9145089D+04	0.3883502D-01	0.3798164D+04	2.4078	0.1391	0.1391	0.0000	0.1853	0.1841	0.0000
								0.4303	0.0000		0.5660	0.0000
30 PRFEVM	EL	1	-0.8333901D+05	0.1139801D-01	0.5266726D+05	-1.5824	-0.3721	-0.3721	0.0000	-0.3083	-0.3064	0.0000
								-1.1509	0.0000		-0.9418	0.0000
31 HEUHM	EL	1	-0.1331820D+03	0.4031700D+02	0.3964759D+02	-3.3591	-2.1034	-2.1034	0.0000	-1.7834	-1.7722	0.0000

32	PRMED	EL	1	0.1619397D+03	0.3003970D+01	0.9162148D+02	1.7675	0.1906	-0.0001 -6.5057 0.1906 0.0000 0.5894 0.1213 0.0000 0.3753	0.2120	-0.0001 -5.4480 0.2106 0.0000 0.6475 0.1168 0.0000 0.3591
33	PRALT	EL	1	0.4318509D+03	0.7172662D+00	0.3416389D+03	1.2641	0.1213	1.1932 0.0000 0.3753 1.1932 0.0000 3.6905	0.8815	0.8760 0.0000 2.6929
34	PRMTRARI	EL	1	0.5827516D+08	0.5226830D-04	0.1389574D+08	4.1937	1.1932	-0.0873 -0.0000 -0.2701 -0.2647 0.0000 -0.8188	-0.0832	-0.0827 0.0000 -0.2541 -0.2391 0.0000 -0.7349
35	PRMMAGRI	EL	1	-0.1546714D+04	0.1441229D+00	0.2797656D+04	-0.5529	-0.0873	0.1341 0.0000 0.4148 -0.1546 0.0000 -0.4782	0.1207	0.1199 0.0000 0.3687 -0.1349 0.0000 -0.4147
36	WD	EL	1	-0.3239691D+02	0.2086000D+02	0.3309251D+02	-0.9790	-0.2647	22758.6669 0.8804 70391.1749	-0.2406	20416.4103 0.9814 62761.4463
37	SAT	EL	1	0.7876587D+02	0.4346667D+01	0.5318922D+02	1.4809	0.1341			
38	SHD	EL	1	-0.7551615D+02	0.5226667D+01	0.3917022D+02	-1.9279	-0.1546			
39	constant	NL	0	0.5809792D+08	0.1000000D+01	0.1390378D+08	4.1786	22759.2513			

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.3826290D+03	0.3826288D+03	0.1801915D-02	-0.1407620D-03
2 LVCEI	-0.2158436D+03	-0.2158435D+03	-0.1016472D-02	0.7940478D-04
3 P08PC	-0.2188726D+03	-0.2188724D+03	-0.1030737D-02	0.8051908D-04
4 PTDEM	-0.1491121D+03	-0.1491121D+03	-0.7022139D-03	0.5485553D-04
5 NCR0UT04	-0.6224622D+03	-0.6224619D+03	-0.2931362D-02	0.2289921D-03
6 GRPOL	-0.1464197D+03	-0.1464196D+03	-0.6895345D-03	0.5386505D-04
7 STR813	0.1198890D+02	0.1198890D+02	0.5645934D-04	-0.4410490D-05
8 STRP	0.3301397D+02	0.3301395D+02	0.1554727D-03	-0.1214521D-04
9 STRCUQ	-0.2689047D+01	-0.2689046D+01	-0.1266353D-04	0.9892496D-06
10 GRVOY	0.1425728D+01	0.1425728D+01	0.6714184D-05	-0.5244985D-06
11 AUTPKRP	0.5998989D+03	0.5998985D+03	0.2825104D-02	-0.2206914D-03
12 GRMUMH	-0.1288098D+02	-0.1288097D+02	-0.6066041D-04	0.4738669D-05
13 TLK822	-0.1674108D+01	-0.1674107D+01	-0.7883875D-05	0.6158725D-06
14 RFK822	0.2289586D+02	0.2289585D+02	0.1078235D-03	-0.8422954D-05
15 SFK822	-0.1938486D+01	-0.1938485D+01	-0.9128912D-05	0.7131322D-06
16 CSFMR822	-0.6422952D+01	-0.6422948D+01	-0.3024761D-04	0.2362882D-05
17 LOIIND61	0.4561594D+03	0.4561592D+03	0.2148192D-02	-0.1678124D-03
18 LOIAS	0.6990438D+03	0.6990434D+03	0.3292007D-02	-0.2571650D-03
19 MOP62	0.2250322D+03	0.2250321D+03	0.1059744D-02	-0.8278510D-04
20 PRMVACRI	0.4747344D+07	0.4747341D+07	0.2235667D+02	-0.1746458D+01
21 KMPARR1	0.1264666D-05	0.1264666D-05	0.5955693D-11	-0.4652468D-12
22 DICR1	0.3023686D-06	0.3023684D-06	0.1423945D-11	-0.1112357D-12
23 PGRPKM	-0.1105035D+06	-0.1105035D+06	-0.5203943D+00	0.4065216D-01
24 PDRQ	-0.8129354D+04	-0.8129350D+04	-0.3828357D-01	0.2990636D-02
25 ENTRNMDC	-0.3120468D+02	-0.3120466D+02	-0.1469522D-03	0.1147961D-04
26 PPAS	0.1236643D+05	0.1236642D+05	0.5823724D-01	-0.4549376D-02
27 SURPOL	-0.5742974D+02	-0.5742970D+02	-0.2704539D-03	0.2112731D-04
28 PERPA	0.8661332D+03	0.8661327D+03	0.4078881D-02	-0.3186340D-03
29 PRCHOM	0.9145089D+04	0.9145083D+04	0.4306697D-01	-0.3364305D-02
30 PRFEVM	-0.8333901D+05	-0.8333896D+05	-0.3924684D+00	0.3065884D-01
31 HEUHM	-0.1331820D+03	-0.1331819D+03	-0.6271939D-03	0.4899512D-04

32 PRMED	0.1619397D+03	0.1619396D+03	0.7626228D-03	-0.5957456D-04
33 PRALT	0.4318509D+03	0.4318506D+03	0.2033716D-02	-0.1588698D-03
34 PRMTRARI	0.5827516D+08	0.5827513D+08	0.2744352D+03	-0.2143833D+02
35 PRMMAGRI	-0.1546714D+04	-0.1546714D+04	-0.7283943D-02	0.5690070D-03
36 WD	-0.3239691D+02	-0.3239689D+02	-0.1525668D-03	0.1191821D-04
37 SAT	0.7876587D+02	0.7876583D+02	0.3709321D-03	-0.2897647D-04
38 SHD	-0.7551615D+02	-0.7551611D+02	-0.3556282D-03	0.2778096D-04
39 constant	0.5809792D+08	0.5809789D+08	0.2736006D+03	-0.2137313D+02

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2123D+06	-0.2718D+07
SIGMA(y)	0.4709D-05	0.1000D+01	-0.1280D+02
GAMMA(y)	-0.3679D-06	-0.7812D-01	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2585D+05	0.3233D+00
SIGMA(y)	0.3868D-04	0.1000D+01	0.1251D-04
GAMMA(y)	0.3093D+01	0.7995D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	-0.5641D+00	-0.5720D+00	-0.3897D+00	-0.1627D+01	-0.3827D+00	0.3133D-01	0.8628D-01	-0.7028D-02	0.3726D-02
LVCEI		-0.1773D+01	0.1000D+01	0.1014D+01	0.6908D+00	0.2884D+01	0.6784D+00	-0.5554D-01	-0.1530D+00	0.1246D-01	-0.6605D-02
P08PC		-0.1748D+01	0.9862D+00	0.1000D+01	0.6813D+00	0.2844D+01	0.6690D+00	-0.5478D-01	-0.1508D+00	0.1229D-01	-0.6514D-02
PTDEM		-0.2566D+01	0.1448D+01	0.1468D+01	0.1000D+01	0.4174D+01	0.9819D+00	-0.8040D-01	-0.2214D+00	0.1803D-01	-0.9561D-02
NCROUT04		-0.6147D+00	0.3468D+00	0.3516D+00	0.2396D+00	0.1000D+01	0.2352D+00	-0.1926D-01	-0.5304D-01	0.4320D-02	-0.2290D-02
GRPOL		-0.2613D+01	0.1474D+01	0.1495D+01	0.1018D+01	0.4251D+01	0.1000D+01	-0.8188D-01	-0.2255D+00	0.1837D-01	-0.9737D-02
STR813		0.3192D+02	-0.1800D+02	-0.1826D+02	-0.1244D+02	-0.5192D+02	-0.1221D+02	0.1000D+01	0.2754D+01	-0.2243D+00	0.1189D+00
STRP		0.1159D+02	-0.6538D+01	-0.6630D+01	-0.4517D+01	-0.1885D+02	-0.4435D+01	0.3631D+00	0.1000D+01	-0.8145D-01	0.4319D-01
STRCUQ		-0.1423D+03	0.8027D+02	0.8139D+02	0.5545D+02	0.2315D+03	0.5445D+02	-0.4458D+01	-0.1228D+02	0.1000D+01	-0.5302D+00
GRVOY		0.2684D+03	-0.1514D+03	-0.1535D+03	-0.1046D+03	-0.4366D+03	-0.1027D+03	0.8409D+01	0.2316D+02	-0.1886D+01	0.1000D+01
AUTPKRP		0.6378D+00	-0.3598D+00	-0.3648D+00	-0.2486D+00	-0.1038D+01	-0.2441D+00	0.1998D-01	0.5503D-01	-0.4483D-02	0.2377D-02
GRMUMH		-0.2970D+02	0.1676D+02	0.1699D+02	0.1158D+02	0.4832D+02	0.1137D+02	-0.9307D+00	-0.2563D+01	0.2088D+00	-0.1107D+00
TLK822		-0.2286D+03	0.1289D+03	0.1307D+03	0.8907D+02	0.3718D+03	0.8746D+02	-0.7161D+01	-0.1972D+02	0.1606D+01	-0.8516D+00
RFK822		0.1671D+02	-0.9427D+01	-0.9559D+01	-0.6513D+01	-0.2719D+02	-0.6395D+01	0.5236D+00	0.1442D+01	-0.1174D+00	0.6227D-01
SFK822		-0.1974D+03	0.1113D+03	0.1129D+03	0.7692D+02	0.3211D+03	0.7553D+02	-0.6185D+01	-0.1703D+02	0.1387D+01	-0.7355D+00
CSFMR822		-0.5957D+02	0.3361D+02	0.3408D+02	0.2322D+02	0.9691D+02	0.2280D+02	-0.1867D+01	-0.5140D+01	0.4187D+00	-0.2220D+00
LOIIND61		0.8388D+00	-0.4732D+00	-0.4798D+00	-0.3269D+00	-0.1365D+01	-0.3210D+00	0.2628D-01	0.7237D-01	-0.5895D-02	0.3126D-02
LOIAS		0.5474D+00	-0.3088D+00	-0.3131D+00	-0.2133D+00	-0.8904D+00	-0.2095D+00	0.1715D-01	0.4723D-01	-0.3847D-02	0.2040D-02
MOP62		0.1700D+01	-0.9592D+00	-0.9726D+00	-0.6626D+00	-0.2766D+01	-0.6507D+00	0.5328D-01	0.1467D+00	-0.1195D-01	0.6336D-02
PRMVACR1		0.8060D-04	-0.4547D-04	-0.4610D-04	-0.3141D-04	-0.1311D-03	-0.3084D-04	0.2525D-05	0.6954D-05	-0.5664D-06	0.3003D-06
KMPARR1		0.3026D+09	-0.1707D+09	-0.1731D+09	-0.1179D+09	-0.4922D+09	-0.1158D+09	0.9480D+07	0.2610D+08	-0.2126D+07	0.1127D+07
DICR1		0.1265D+10	-0.7138D+09	-0.7239D+09	-0.4931D+09	-0.2059D+10	-0.4842D+09	0.3965D+08	0.1092D+09	-0.8893D+07	0.4715D+07
PGRPKM		-0.3463D-02	0.1953D-02	0.1981D-02	0.1349D-02	0.5633D-02	0.1325D-02	-0.1085D-03	-0.2988D-03	0.2433D-04	-0.1290D-04
PDRQ		-0.4707D-01	0.2655D-01	0.2692D-01	0.1834D-01	0.7657D-01	0.1801D-01	-0.1475D-02	-0.4061D-02	0.3308D-03	-0.1754D-03
ENTRNMDC		-0.1226D+02	0.6917D+01	0.7014D+01	0.4779D+01	0.1995D+02	0.4692D+01	-0.3842D+00	-0.1058D+01	0.8617D-01	-0.4569D-01

PFAS	0.3094D-01	-0.1745D-01	-0.1770D-01	-0.1206D-01	-0.5033D-01	-0.1184D-01	0.9695D-03	0.2670D-02	-0.2174D-03	0.1153D-03	
SURPOL	-0.6663D+01	0.3758D+01	0.3811D+01	0.2596D+01	0.1084D+02	0.2550D+01	-0.2088D+00	-0.5749D+00	0.4682D-01	-0.2483D-01	
PERPA	0.4418D+00	-0.2492D+00	-0.2527D+00	-0.1722D+00	-0.7187D+00	-0.1690D+00	0.1384D-01	0.3812D-01	-0.3105D-02	0.1646D-02	
PRCHOM	0.4184D-01	-0.2360D-01	-0.2393D-01	-0.1631D-01	-0.6807D-01	-0.1601D-01	0.1311D-02	0.3610D-02	-0.2940D-03	0.1559D-03	
PRFEVM	-0.4591D-02	0.2590D-02	0.2626D-02	0.1789D-02	0.7469D-02	0.1757D-02	-0.1439D-03	-0.3961D-03	0.3227D-04	-0.1711D-04	
HEUHM	-0.2873D+01	0.1621D+01	0.1643D+01	0.1120D+01	0.4674D+01	0.1099D+01	-0.9002D-01	-0.2479D+00	0.2019D-01	-0.1071D-01	
PRMED	0.2363D+01	-0.1333D+01	-0.1352D+01	-0.9208D+00	-0.3844D+01	-0.9042D+00	0.7403D-01	0.2039D+00	-0.1661D-01	0.8804D-02	
PRALT	0.8860D+00	-0.4998D+00	-0.5068D+00	-0.3453D+00	-0.1441D+01	-0.3391D+00	0.2776D-01	0.7645D-01	-0.6227D-02	0.3301D-02	
PRMTRAR1	0.6566D-05	-0.3704D-05	-0.3756D-05	-0.2559D-05	-0.1068D-04	-0.2513D-05	0.2057D-06	0.5665D-06	-0.4614D-07	0.2447D-07	
PRMMAGR1	-0.2474D+00	0.1395D+00	0.1415D+00	0.9641D-01	0.4024D+00	0.9467D-01	-0.7751D-02	-0.2134D-01	0.1739D-02	-0.9218D-03	
WD	-0.1181D+02	0.6662D+01	0.6756D+01	0.4603D+01	0.1921D+02	0.4520D+01	-0.3701D+00	-0.1019D+01	0.8300D-01	-0.4401D-01	
SAT	0.4858D+01	-0.2740D+01	-0.2779D+01	-0.1893D+01	-0.7903D+01	-0.1859D+01	0.1522D+00	0.4191D+00	-0.3414D-01	0.1810D-01	
SHD	-0.5067D+01	0.2858D+01	0.2898D+01	0.1975D+01	0.8243D+01	0.1939D+01	-0.1588D+00	-0.4372D+00	0.3561D-01	-0.1888D-01	
constant	0.6586D-05	-0.3715D-05	-0.3767D-05	-0.2567D-05	-0.1071D-04	-0.2520D-05	0.2064D-06	0.5682D-06	-0.4628D-07	0.2454D-07	
=====											
X(l)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
=====											
DISCEIN	0.1568D+01	-0.3366D-01	-0.4375D-02	0.5984D-01	-0.5066D-02	-0.1679D-01	0.1192D+01	0.1827D+01	0.5881D+00	0.1241D+05	
LVCEI	-0.2779D+01	0.5968D-01	0.7756D-02	-0.1061D+00	0.8981D-02	0.2976D-01	-0.2113D+01	-0.3239D+01	-0.1043D+01	-0.2199D+05	
P08PC	-0.2741D+01	0.5885D-01	0.7649D-02	-0.1046D+00	0.8857D-02	0.2935D-01	-0.2084D+01	-0.3194D+01	-0.1028D+01	-0.2169D+05	
PTDEM	-0.4023D+01	0.8638D-01	0.1123D-01	-0.1535D+00	0.1300D-01	0.4307D-01	-0.3059D+01	-0.4688D+01	-0.1509D+01	-0.3184D+05	
NCROUT04	-0.9638D+00	0.2069D-01	0.2689D-02	-0.3678D-01	0.3114D-02	0.1032D-01	-0.7328D+00	-0.1123D+01	-0.3615D+00	-0.7627D+04	
GRPOL	-0.4097D+01	0.8797D-01	0.1143D-01	-0.1564D+00	0.1324D-01	0.4387D-01	-0.3115D+01	-0.4774D+01	-0.1537D+01	-0.3242D+05	
STR813	0.5004D+02	-0.1074D+01	-0.1396D+00	0.1910D+01	-0.1617D+00	-0.5357D+00	0.3805D+02	0.5831D+02	0.1877D+02	0.3960D+06	
STRP	0.1817D+02	-0.3902D+00	-0.5071D-01	0.6935D+00	-0.5872D-01	-0.1946D+00	0.1382D+02	0.2117D+02	0.6816D+01	0.1438D+06	
STRCUQ	-0.2231D+03	0.4790D+01	0.6226D+00	-0.8514D+01	0.7209D+00	0.2389D+01	-0.1696D+03	-0.2600D+03	-0.8368D+02	-0.1765D+07	
GRVOY	0.4208D+03	-0.9035D+01	-0.1174D+01	0.1606D+02	-0.1360D+01	-0.4505D+01	0.3199D+03	0.4903D+03	0.1578D+03	0.3330D+07	
AUTPKRP	0.1000D+01	-0.2147D-01	-0.2791D-02	0.3817D-01	-0.3231D-02	-0.1071D-01	0.7604D+00	0.1165D+01	0.3751D+00	0.7914D+04	
GRMUMH	-0.4657D+02	0.1000D+01	0.1300D+00	-0.1777D+01	0.1505D+00	0.4986D+00	-0.3541D+02	-0.5427D+02	-0.1747D+02	-0.3686D+06	
TLK822	-0.3583D+03	0.7694D+01	0.1000D+01	-0.1368D+02	0.1158D+01	0.3837D+01	-0.2725D+03	-0.4176D+03	-0.1344D+03	-0.2836D+07	
RFK822	0.2620D+02	-0.5626D+00	-0.7312D-01	0.1000D+01	-0.8467D-01	-0.2805D+00	0.1992D+02	0.3053D+02	0.9829D+01	0.2073D+06	
SFK822	-0.3095D+03	0.6645D+01	0.8636D+00	-0.1181D+02	0.1000D+01	0.3313D+01	-0.2353D+03	-0.3606D+03	-0.1161D+03	-0.2449D+07	
CSFMR822	-0.9340D+02	0.2005D+01	0.2606D+00	-0.3565D+01	0.3018D+00	0.1000D+01	-0.7102D+02	-0.1088D+03	-0.3504D+02	-0.7391D+06	
LOIIND61	0.1315D+01	-0.2824D-01	-0.3670D-02	0.5019D-01	-0.4250D-02	-0.1408D-01	0.1000D+01	0.1532D+01	0.4933D+00	0.1041D+05	
LOIAS	0.8582D+00	-0.1843D-01	-0.2395D-02	0.3275D-01	-0.2773D-02	-0.9188D-02	0.6525D+00	0.1000D+01	0.3219D+00	0.6791D+04	
MOP62	0.2666D+01	-0.5724D-01	-0.7439D-02	0.1017D+00	-0.8614D-02	-0.2854D-01	0.2027D+01	0.3106D+01	0.1000D+01	0.2110D+05	
PRMVACR1	0.1264D-03	-0.2713D-05	-0.3526D-06	0.4823D-05	-0.4083D-06	-0.1353D-05	0.9609D-04	0.1472D-03	0.4740D-04	0.1000D+01	
KMPARR1	0.4744D+09	-0.1019D+08	-0.1324D+07	0.1810D+08	-0.1533D+07	-0.5079D+07	0.3607D+09	0.5527D+09	0.1779D+09	0.3754D+13	
DICR1	0.1984D+10	-0.4260D+08	-0.5537D+07	0.7572D+08	-0.6411D+07	-0.2124D+08	0.1509D+10	0.2312D+10	0.7442D+09	0.1570D+14	
PGRPKM	-0.5429D-02	0.1166D-03	0.1515D-04	-0.2072D-03	0.1754D-04	0.5812D-04	-0.4128D-02	-0.6326D-02	-0.2036D-02	-0.4296D+02	
PDRQ	-0.7379D-01	0.1585D-02	0.2059D-03	-0.2816D-02	0.2385D-03	0.7901D-03	-0.5611D-01	-0.8599D-01	-0.2768D-01	-0.5840D+03	
ENTRNMDC	-0.1922D+02	0.4128D+00	0.5365D-01	-0.7337D+00	0.6212D-01	0.2058D+00	-0.1462D+02	-0.2240D+02	-0.7211D+01	-0.1521D+06	
PFAS	0.4851D-01	-0.1042D-02	-0.1354D-03	0.1851D-02	-0.1568D-03	-0.5194D-03	0.3689D-01	0.5653D-01	0.1820D-01	0.3839D+03	
SURPOL	-0.1045D+02	0.2243D+00	0.2915D-01	-0.3987D+00	0.3375D-01	0.1118D+00	-0.7943D+01	-0.1217D+02	-0.3918D+01	-0.8266D+05	
PERPA	0.6926D+00	-0.1487D-01	-0.1933D-02	0.2643D-01	-0.2238D-02	-0.7416D-02	0.5267D+00	0.8071D+00	0.2598D+00	0.5481D+04	
PRCHOM	0.6560D-01	-0.1409D-02	-0.1831D-03	0.2504D-02	-0.2120D-03	-0.7023D-03	0.4988D-01	0.7644D-01	0.2461D-01	0.5191D+03	
PRFEVM	-0.7198D-02	0.1546D-03	0.2009D-04	-0.2747D-03	0.2326D-04	0.7707D-04	-0.5474D-02	-0.8388D-02	-0.2700D-02	-0.5696D+02	
HEUHM	-0.4504D+01	0.9672D-01	0.1257D-01	-0.1719D+00	0.1456D-01	0.4823D-01	-0.3425D+01	-0.5249D+01	-0.1690D+01	-0.3565D+05	
PRMED	0.3704D+01	-0.7954D-01	-0.1034D-01	0.1414D+00	-0.1197D-01	-0.3966D-01	0.2817D+01	0.4317D+01	0.1390D+01	0.2932D+05	
PRALT	0.1389D+01	-0.2983D-01	-0.3877D-02	0.5302D-01	-0.4489D-02	-0.1487D-01	0.1056D+01	0.1619D+01	0.5211D+00	0.1099D+05	
PRMTRAR1	0.1029D-04	-0.2210D-06	-0.2873D-07	0.3929D-06	-0.3326D-07	-0.1102D-06	0.7828D-05	0.1200D-04	0.3862D-05	0.8146D-01	

PRMMAGR1	-0.3879D+00	0.8328D-02	0.1082D-02	-0.1480D-01	0.1253D-02	0.4153D-02	-0.2949D+00	-0.4520D+00	-0.1455D+00	-0.3069D+04	
WD	-0.1852D+02	0.3976D+00	0.5167D-01	-0.7067D+00	0.5984D-01	0.1983D+00	-0.1408D+02	-0.2158D+02	-0.6946D+01	-0.1465D+06	
SAT	0.7616D+01	-0.1635D+00	-0.2125D-01	0.2907D+00	-0.2461D-01	-0.8154D-01	0.5791D+01	0.8875D+01	0.2857D+01	0.6027D+05	
SHD	-0.7944D+01	0.1706D+00	0.2217D-01	-0.3032D+00	0.2567D-01	0.8505D-01	-0.6041D+01	-0.9257D+01	-0.2980D+01	-0.6287D+05	
constant	0.1033D-04	-0.2217D-06	-0.2882D-07	0.3941D-06	-0.3337D-07	-0.1106D-06	0.7852D-05	0.1203D-04	0.3873D-05	0.8171D-01	
X (1)	X (k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
DISCEIN	0.3305D-08	0.7902D-09	-0.2888D+03	-0.2125D+02	-0.8155D-01	0.3232D+02	-0.1501D+00	0.2264D+01	0.2390D+02	-0.2178D+03	
LVCEI	-0.5859D-08	-0.1401D-08	0.5120D+03	0.3766D+02	0.1446D+00	-0.5729D+02	0.2661D+00	-0.4013D+01	-0.4237D+02	0.3861D+03	
P08PC	-0.5778D-08	-0.1381D-08	0.5049D+03	0.3714D+02	0.1426D+00	-0.5650D+02	0.2624D+00	-0.3957D+01	-0.4178D+02	0.3808D+03	
PTDEM	-0.8481D-08	-0.2028D-08	0.7411D+03	0.5452D+02	0.2093D+00	-0.8293D+02	0.3851D+00	-0.5809D+01	-0.6133D+02	0.5589D+03	
NCROUT04	-0.2032D-08	-0.4858D-09	0.1775D+03	0.1306D+02	0.5013D-01	-0.1987D+02	0.9226D-01	-0.1391D+01	-0.1469D+02	0.1339D+03	
GRPOL	-0.8637D-08	-0.2065D-08	0.7547D+03	0.5552D+02	0.2131D+00	-0.8446D+02	0.3922D+00	-0.5915D+01	-0.6246D+02	0.5692D+03	
STR813	0.1055D-06	0.2522D-07	-0.9217D+04	-0.6781D+03	-0.2603D+01	0.1031D+04	-0.4790D+01	0.7224D+02	0.7628D+03	-0.6951D+04	
STRP	0.3831D-07	0.9159D-08	-0.3347D+04	-0.2462D+03	-0.9452D+00	0.3746D+03	-0.1740D+01	0.2624D+02	0.2770D+03	-0.2524D+04	
STRCUQ	-0.4703D-06	-0.1124D-06	0.4109D+05	0.3023D+04	0.1160D+02	-0.4599D+04	0.2136D+02	-0.3221D+03	-0.3401D+04	0.3099D+05	
GRVOY	0.8870D-06	0.2121D-06	-0.7751D+05	-0.5702D+04	-0.2189D+02	0.8674D+04	-0.4028D+02	0.6075D+03	0.6414D+04	-0.5845D+05	
AUTPKRP	0.2108D-08	0.5040D-09	-0.1842D+03	-0.1355D+02	-0.5202D-01	0.2061D+02	-0.9573D-01	0.1444D+01	0.1524D+02	-0.1389D+03	
GRMUMH	-0.9818D-07	-0.2347D-07	0.8579D+04	0.6311D+03	0.2423D+01	-0.9601D+03	0.4458D+01	-0.6724D+02	-0.7100D+03	0.6470D+04	
TLK822	-0.7554D-06	-0.1806D-06	0.6601D+05	0.4856D+04	0.1864D+02	-0.7387D+04	0.3430D+02	-0.5174D+03	-0.5463D+04	0.4978D+05	
RFK822	0.5524D-07	0.1321D-07	-0.4826D+04	-0.3551D+03	-0.1363D+01	0.5401D+03	-0.2508D+01	0.3783D+02	0.3994D+03	-0.3640D+04	
SFK822	-0.6524D-06	-0.1560D-06	0.5701D+05	0.4194D+04	0.1610D+02	-0.6379D+04	0.2963D+02	-0.4468D+03	-0.4718D+04	0.4299D+05	
CSFMR822	-0.1969D-06	-0.4708D-07	0.1720D+05	0.1266D+04	0.4858D+01	-0.1925D+04	0.8941D+01	-0.1348D+03	-0.1424D+04	0.1298D+05	
LOIIND61	0.2772D-08	0.6629D-09	-0.2422D+03	-0.1782D+02	-0.6841D-01	0.2711D+02	-0.1259D+00	0.1899D+01	0.2005D+02	-0.1827D+03	
LOIAS	0.1809D-08	0.4325D-09	-0.1581D+03	-0.1163D+02	-0.4464D-01	0.1769D+02	-0.8215D-01	0.1239D+01	0.1308D+02	-0.1192D+03	
MOP62	0.5620D-08	0.1344D-08	-0.4911D+03	-0.3613D+02	-0.1387D+00	0.5495D+02	-0.2552D+00	0.3849D+01	0.4064D+02	-0.3703D+03	
PRMVACR1	0.2664D-12	0.6369D-13	-0.2328D-01	-0.1712D-02	-0.6573D-05	0.2605D-02	-0.1210D-04	0.1824D-03	0.1926D-02	-0.1755D-01	
KMPARR1	0.1000D+01	0.2391D+00	-0.8738D+11	-0.6428D+10	-0.2467D+08	0.9778D+10	-0.4541D+08	0.6849D+09	0.7231D+10	-0.6590D+11	
DICR1	0.4183D+01	0.1000D+01	-0.3655D+12	-0.2689D+11	-0.1032D+09	0.4090D+11	-0.1899D+09	0.2864D+10	0.3024D+11	-0.2756D+12	
PGRPKM	-0.1144D-10	-0.2736D-11	0.1000D+01	0.7357D-01	0.2824D-03	-0.1119D+00	0.5197D-03	-0.7838D-02	-0.8276D-01	0.7542D+00	
PDRQ	-0.1556D-09	-0.3719D-10	0.1359D+02	0.1000D+01	0.3839D-02	-0.1521D+01	0.7064D-02	-0.1065D+00	-0.1125D+01	0.1025D+02	
ENTRNMDC	-0.4053D-07	-0.9690D-08	0.3541D+04	0.2605D+03	0.1000D+01	-0.3963D+03	0.1840D+01	-0.2776D+02	-0.2931D+03	0.2671D+04	
PPAS	0.1023D-09	0.2445D-10	-0.8936D+01	-0.6574D+00	-0.2523D-02	0.1000D+01	-0.4644D-02	0.7004D-01	0.7395D+00	-0.6739D+01	
SURPOL	-0.2202D-07	-0.5265D-08	0.1924D+04	0.1416D+03	0.5434D+00	-0.2153D+03	0.1000D+01	-0.1508D+02	-0.1592D+03	0.1451D+04	
PERPA	0.1460D-08	0.3491D-09	-0.1276D+03	-0.9386D+01	-0.3603D-01	0.1428D+02	-0.6631D-01	0.1000D+01	0.1056D+02	-0.9622D+02	
PRCHOM	0.1383D-09	0.3306D-10	-0.1208D+02	-0.8889D+00	-0.3412D-02	0.1352D+01	-0.6280D-02	0.9471D-01	0.1000D+01	-0.9113D+01	
PRFEVM	-0.1517D-10	-0.3628D-11	0.1326D+01	0.9755D-01	0.3744D-03	-0.1484D+00	0.6891D-03	-0.1039D-01	-0.1097D+00	0.1000D+01	
HEUHM	-0.9496D-08	-0.2270D-08	0.8297D+03	0.6104D+02	0.2343D+00	-0.9285D+02	0.4312D+00	-0.6503D+01	-0.6867D+02	0.6258D+03	
PRMED	0.7809D-08	0.1867D-08	-0.6824D+03	-0.5020D+02	-0.1927D+00	0.7636D+02	-0.3546D+00	0.5348D+01	0.5647D+02	-0.5146D+03	
PRALT	0.2928D-08	0.7002D-09	-0.2559D+03	-0.1882D+02	-0.7226D-01	0.2864D+02	-0.1330D+00	0.2006D+01	0.2118D+02	-0.1930D+03	
PRMTRAR1	0.2170D-13	0.5189D-14	-0.1896D-02	-0.1395D-03	-0.5355D-06	0.2122D-03	-0.9855D-06	0.1486D-04	0.1569D-03	-0.1430D-02	
PRMMAGR1	-0.8176D-09	-0.1955D-09	0.7144D+02	0.5256D+01	0.2017D-01	-0.7995D+01	0.3713D-01	-0.5600D+00	-0.5913D+01	0.5388D+02	
WD	-0.3904D-07	-0.9333D-08	0.3411D+04	0.2509D+03	0.9632D+00	-0.3817D+03	0.1773D+01	-0.2674D+02	-0.2823D+03	0.2572D+04	
SAT	0.1606D-07	0.3839D-08	-0.1403D+04	-0.1032D+03	-0.3962D+00	0.1570D+03	-0.7291D+00	0.1100D+02	0.1161D+03	-0.1058D+04	
SHD	-0.1675D-07	-0.4004D-08	0.1463D+04	0.1077D+03	0.4132D+00	-0.1638D+03	0.7605D+00	-0.1147D+02	-0.1211D+03	0.1104D+04	
constant	0.2177D-13	0.5204D-14	-0.1902D-02	-0.1399D-03	-0.5371D-06	0.2129D-03	-0.9885D-06	0.1491D-04	0.1574D-03	-0.1434D-02	
X (1)	X (k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
DISCEIN	-0.3481D+00	0.4232D+00	0.1129D+01	0.1523D+06	-0.4042D+01	-0.8467D-01	0.2059D+00	-0.1974D+00	0.1518D+06		
LVCEI	0.6170D+00	-0.7503D+00	-0.2001D+01	-0.2700D+06	0.7166D+01	0.1501D+00	-0.3649D+00	0.3499D+00	-0.2692D+06		

P08PC	0.6085D+00	-0.7399D+00	-0.1973D+01	-0.2663D+06	0.7067D+01	0.1480D+00	-0.3599D+00	0.3450D+00	-0.2654D+06
PTDEM	0.8932D+00	-0.1086D+01	-0.2896D+01	-0.3908D+06	0.1037D+02	0.2173D+00	-0.5282D+00	0.5064D+00	-0.3896D+06
NCROUT04	0.2140D+00	-0.2602D+00	-0.6938D+00	-0.9362D+05	0.2485D+01	0.5205D-01	-0.1265D+00	0.1213D+00	-0.9334D+05
GRPOL	0.9096D+00	-0.1106D+01	-0.2949D+01	-0.3980D+06	0.1056D+02	0.2213D+00	-0.5379D+00	0.5158D+00	-0.3968D+06
STR813	-0.1111D+02	0.1351D+02	0.3602D+02	0.4861D+07	-0.1290D+03	-0.2702D+01	0.6570D+01	-0.6299D+01	0.4846D+07
STRP	-0.4034D+01	0.4905D+01	0.1308D+02	0.1765D+07	-0.4685D+02	-0.9813D+00	0.2386D+01	-0.2287D+01	0.1760D+07
STRCUQ	0.4953D+02	-0.6022D+02	-0.1606D+03	-0.2167D+08	0.5752D+03	0.1205D+02	-0.2929D+02	0.2808D+02	-0.2161D+08
GRVOY	-0.9341D+02	0.1136D+03	0.3029D+03	0.4087D+08	-0.1085D+04	-0.2272D+02	0.5525D+02	-0.5297D+02	0.4075D+08
AUTPKRP	-0.2220D+00	0.2699D+00	0.7199D+00	0.9714D+05	-0.2578D+01	-0.5400D-01	0.1313D+00	-0.1259D+00	0.9685D+05
GRMUMH	0.1034D+02	-0.1257D+02	-0.3353D+02	-0.4524D+07	0.1201D+03	0.2515D+01	-0.6115D+01	0.5863D+01	-0.4510D+07
TLK822	0.7955D+02	-0.9673D+02	-0.2580D+03	-0.3481D+08	0.9239D+03	0.1935D+02	-0.4705D+02	0.4511D+02	-0.3470D+08
RFK822	-0.5817D+01	0.7073D+01	0.1886D+02	0.2545D+07	-0.6755D+02	-0.1415D+01	0.3440D+01	-0.3298D+01	0.2537D+07
SFK822	0.6870D+02	-0.8354D+02	-0.2228D+03	-0.3006D+08	0.7979D+03	0.1671D+02	-0.4063D+02	0.3896D+02	-0.2997D+08
CSFMR822	0.2074D+02	-0.2521D+02	-0.6724D+02	-0.9073D+07	0.2408D+03	0.5044D+01	-0.1226D+02	0.1176D+02	-0.9045D+07
LOIIND61	-0.2920D+00	0.3550D+00	0.9467D+00	0.1278D+06	-0.3391D+01	-0.7102D-01	0.1727D+00	-0.1655D+00	0.1274D+06
LOIAS	-0.1905D+00	0.2317D+00	0.6178D+00	0.8336D+05	-0.2213D+01	-0.4634D-01	0.1127D+00	-0.1080D+00	0.8311D+05
MOP62	-0.5918D+00	0.7196D+00	0.1919D+01	0.2590D+06	-0.6873D+01	-0.1440D+00	0.3500D+00	-0.3356D+00	0.2582D+06
PRMVACR1	-0.2805D-04	0.3411D-04	0.9097D-04	0.1228D+02	-0.3258D-03	-0.6824D-05	0.1659D-04	-0.1591D-04	0.1224D+02
KMPARR1	-0.1053D+09	0.1280D+09	0.3415D+09	0.4608D+14	-0.1223D+10	-0.2562D+08	0.6228D+08	-0.5971D+08	0.4594D+14
DICR1	-0.4405D+09	0.5356D+09	0.1428D+10	0.1927D+15	-0.5115D+10	-0.1071D+09	0.2605D+09	-0.2497D+09	0.1921D+15
PGRPKM	0.1205D-02	-0.1465D-02	-0.3908D-02	-0.5274D+03	0.1400D-01	0.2932D-03	-0.7128D-03	0.6834D-03	-0.5258D+03
PDRQ	0.1638D-01	-0.1992D-01	-0.5312D-01	-0.7168D+04	0.1903D+00	0.3985D-02	-0.9689D-02	0.9289D-02	-0.7147D+04
ENTRNMD	0.4268D+01	-0.5190D+01	-0.1384D+02	-0.1868D+07	0.4957D+02	0.1038D+01	-0.2524D+01	0.2420D+01	-0.1862D+07
PPAS	-0.1077D-01	0.1310D-01	0.3492D-01	0.4712D+04	-0.1251D+00	-0.2620D-02	0.6369D-02	-0.6107D-02	0.4698D+04
SURPOL	0.2319D+01	-0.2820D+01	-0.7520D+01	-0.1015D+07	0.2693D+02	0.5641D+00	-0.1372D+01	0.1315D+01	-0.1012D+07
PERPA	-0.1538D+00	0.1870D+00	0.4986D+00	0.6728D+05	-0.1786D+01	-0.3740D-01	0.9094D-01	-0.8719D-01	0.6708D+05
PRCHOM	-0.1456D-01	0.1771D-01	0.4722D-01	0.6372D+04	-0.1691D+00	-0.3543D-02	0.8613D-02	-0.8258D-02	0.6353D+04
PRFEVM	0.1598D-02	-0.1943D-02	-0.5182D-02	-0.6993D+03	0.1856D-01	0.3887D-03	-0.9451D-03	0.9061D-03	-0.6971D+03
HEUHM	0.1000D+01	-0.1216D+01	-0.3243D+01	-0.4376D+06	0.1161D+02	0.2433D+00	-0.5914D+00	0.5670D+00	-0.4362D+06
PRMED	-0.8224D+00	0.1000D+01	0.2667D+01	0.3599D+06	-0.9551D+01	-0.2001D+00	0.4864D+00	-0.4663D+00	0.3588D+06
PRALT	-0.3084D+00	0.3750D+00	0.1000D+01	0.1349D+06	-0.3582D+01	-0.7502D-01	0.1824D+00	-0.1749D+00	0.1345D+06
PRMTRAR1	-0.2285D-05	0.2779D-05	0.7411D-05	0.1000D+01	-0.2654D-04	-0.5559D-06	0.1352D-05	-0.1296D-05	0.9970D+00
PRMMAGR1	0.8611D-01	-0.1047D+00	-0.2792D+00	-0.3768D+05	0.1000D+01	0.2095D-01	-0.5092D-01	0.4882D-01	-0.3756D+05
WD	0.4111D+01	-0.4999D+01	-0.1333D+02	-0.1799D+07	0.4774D+02	0.1000D+01	-0.2431D+01	0.2331D+01	-0.1793D+07
SAT	-0.1691D+01	0.2056D+01	0.5483D+01	0.7399D+06	-0.1964D+02	-0.4113D+00	0.1000D+01	-0.9587D+00	0.7376D+06
SHD	0.1764D+01	-0.2144D+01	-0.5719D+01	-0.7717D+06	0.2048D+02	0.4290D+00	-0.1043D+01	0.1000D+01	-0.7693D+06
constant	-0.2292D-05	0.2787D-05	0.7433D-05	0.1003D+01	-0.2662D-04	-0.5576D-06	0.1356D-05	-0.1300D-05	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0013

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.2552717D+04	0.2552960D+04
STD.ERROR	0.9733800D+03	0.9218542D+03
SKEWNESS	0.4428551	-0.1102785

E(y) at the means : 0.2552781D+04

Sig(y) at the means : 0.3107717D+03

C.o.V. at the means : 0.1217385

Gam(y) at the means : -0.0003036

Pearson-R2 : 0.8978909

Pearson-R2 bar : 0.8830245

Pseudo-(1)-R2 : 0.8977277

Pseudo-(1)-R2 bar : 0.8828375
 Error Variance : 0.9657680D+05
 Log-likelihood : -0.2147396D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
 minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
 and starting direction (relative parameter increments for 1st step)

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      13      500      0.1D+01      0.1D-06
      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00
      0.00000D+00      0.00000D+00      0.10000D+01
      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01      0.10000D+01
      0.10000D+01      0.10000D+01      0.10000D+01
      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00
      0.00000D+00      0.00000D+00      0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)
      0.7506903894D+02      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00
      0.00000D+00      0.00000D+00      0.00000D+00      0.00000D+00      0.10000D+01

new absolute minimum , parameters for fcn entry 12 follow - - f,x(i)
      -0.6096106480D+02      0.20947D+00      0.10232D-01      -0.58974D-01      0.10204D+00      -0.10558D+00      -0.11001D+00      -0.10010D+00      -0.76993D-01
      -0.68933D-03      0.11876D+00      0.27726D+00      0.16681D+00      0.79739D+00

new absolute minimum , parameters for fcn entry 17 follow - - f,x(i)
      -0.6755363883D+02      0.22380D+00      -0.25124D-02      -0.79192D-01      -0.12001D+00      -0.11822D+00      -0.11530D+00      -0.10141D+00      -0.75222D-01
      0.10490D-01      0.13833D+00      0.30355D+00      0.17344D+00      0.77341D+00

new absolute minimum , parameters for fcn entry 21 follow - - f,x(i)
      -0.8386798094D+02      0.26237D+00      -0.95521D-01      -0.14820D+00      -0.12497D+00      -0.69770D-01      -0.79999D-01      -0.10235D+00      -0.12286D+00
      -0.30756D-01      0.13292D+00      0.38191D+00      0.14792D+00      0.58860D+00

new absolute minimum , parameters for fcn entry 25 follow - - f,x(i)
      -0.9392707986D+02      0.30141D+00      -0.11511D+00      -0.13079D+00      -0.61609D-01      -0.57311D-01      -0.14159D+00      -0.11671D+00      -0.11463D+00
      0.24750D-01      0.14273D+00      0.39632D+00      0.49615D-01      0.37078D+00

new absolute minimum , parameters for fcn entry 27 follow - - f,x(i)
      -0.9951557672D+02      0.36486D+00      -0.67909D-01      -0.12263D+00      -0.62482D-01      -0.97554D-01      -0.12995D+00      -0.64999D-01      -0.83548D-01
      0.40906D-01      0.10150D+00      0.38144D+00      -0.63732D-02      0.21396D+00

new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
      -0.1020728945D+03      0.44746D+00      0.16540D-01      -0.17834D+00      -0.55931D-01      -0.61456D-01      -0.91461D-01      -0.64303D-01      -0.10875D+00
      0.64716D-01      0.15163D+00      0.31960D+00      -0.46422D-01      0.14903D+00

new absolute minimum , parameters for fcn entry 33 follow - - f,x(i)
      -0.1023403441D+03      0.44821D+00      0.29696D-01      -0.18771D+00      -0.46157D-01      -0.32668D-01      -0.86112D-01      -0.57124D-01      -0.88834D-01
      0.84048D-01      0.15148D+00      0.31077D+00      -0.12015D-01      0.13273D+00

new absolute minimum , parameters for fcn entry 35 follow - - f,x(i)
      -0.1025158410D+03      0.42518D+00      0.46255D-01      -0.20679D+00      -0.54537D-01      -0.35798D-01      -0.89771D-01      -0.67099D-01      -0.11053D+00
      0.10531D+00      0.13552D+00      0.30237D+00      -0.59661D-02      0.12937D+00

new absolute minimum , parameters for fcn entry 38 follow - - f,x(i)
      -0.1034543483D+03      0.39358D+00      0.89848D-01      -0.19687D+00      -0.90240D-01      -0.10580D-01      -0.74287D-01      -0.72309D-01      -0.12740D+00
      0.12621D+00      0.16928D+00      0.29790D+00      -0.30027D-01      0.15798D+00

new absolute minimum , parameters for fcn entry 41 follow - - f,x(i)
      -0.1041418257D+03      0.41097D+00      0.75434D-01      -0.23678D+00      -0.57606D-01      -0.41317D-01      -0.95512D-01      -0.73339D-01      -0.12798D+00
      0.10764D+00      0.18913D+00      0.24033D+00      -0.20721D-01      0.18736D+00

new absolute minimum , parameters for fcn entry 44 follow - - f,x(i)
      -0.1041752878D+03      0.41885D+00      0.68544D-01      -0.23294D+00      -0.55313D-01      -0.41000D-01      -0.96939D-01      -0.62603D-01      -0.13896D+00
      0.11633D+00      0.18840D+00      0.23697D+00      -0.18213D-01      0.19201D+00

new absolute minimum , parameters for fcn entry 46 follow - - f,x(i)
      -0.1041928592D+03      0.42321D+00      0.64789D-01      -0.23116D+00      -0.62578D-01      -0.37104D-01      -0.10008D+00      -0.67312D-01      -0.13705D+00
      0.11769D+00      0.18406D+00      0.23234D+00      -0.18432D-01      0.19497D+00

new absolute minimum , parameters for fcn entry 49 follow - - f,x(i)
      -0.1043775351D+03      0.41389D+00      0.68082D-01      -0.22845D+00      -0.51069D-01      -0.37152D-01      -0.95571D-01      -0.70544D-01      -0.13543D+00
      0.12171D+00      0.18359D+00      0.23820D+00      -0.16870D-01      0.22325D+00

new absolute minimum , parameters for fcn entry 52 follow - - f,x(i)
      -0.1043896510D+03      0.40884D+00      0.67343D-01      -0.22451D+00      -0.53951D-01      -0.38721D-01      -0.96063D-01      -0.69187D-01      -0.13810D+00
      0.11898D+00      0.18919D+00      0.23274D+00      -0.13110D-01      0.22105D+00

new absolute minimum , parameters for fcn entry 54 follow - - f,x(i)
      -0.1043901019D+03      0.40851D+00      0.67796D-01      -0.22503D+00      -0.54368D-01      -0.38056D-01      -0.97647D-01      -0.67972D-01      -0.13820D+00
      0.11820D+00      0.18933D+00      0.23285D+00      -0.13316D-01      0.22120D+00

new absolute minimum , parameters for fcn entry 56 follow - - f,x(i)
      -0.1043994597D+03      0.40963D+00      0.64136D-01      -0.22189D+00      -0.53957D-01      -0.38749D-01      -0.98341D-01      -0.68673D-01      -0.13665D+00
      0.11707D+00      0.19039D+00      0.23437D+00      -0.12909D-01      0.22667D+00

new absolute minimum , parameters for fcn entry 58 follow - - f,x(i)
      -0.1043995377D+03      0.41009D+00      0.64011D-01      -0.22164D+00      -0.53640D-01      -0.38791D-01      -0.98322D-01      -0.68444D-01      -0.13619D+00
      0.11665D+00      0.19083D+00      0.23432D+00      -0.13112D-01      0.22635D+00

new absolute minimum , parameters for fcn entry 60 follow - - f,x(i)
      -0.1043995391D+03      0.41005D+00      0.64005D-01      -0.22162D+00      -0.53634D-01      -0.38787D-01      -0.98347D-01      -0.68452D-01      -0.13617D+00
      0.11668D+00      0.19082D+00      0.23433D+00      -0.13113D-01      0.22628D+00

new absolute minimum , parameters for fcn entry 61 follow - - f,x(i)
      -0.1043995391D+03      0.41005D+00      0.64005D-01      -0.22162D+00      -0.53634D-01      -0.38788D-01      -0.98348D-01      -0.68452D-01      -0.13617D+00
      0.11668D+00      0.19082D+00      0.23433D+00      -0.13114D-01      0.22627D+00

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new absolute minimum , parameters for fcn entry 62 follow - - f,x(i)
-0.1043995391D+03 0.41005D+00 0.64005D-01 -0.22162D+00 -0.53634D-01 -0.38788D-01 -0.98348D-01 -0.68452D-01 -0.13617D+00
0.11668D+00 0.19082D+00 0.23433D+00 -0.13114D-01 0.22627D+00

new absolute minimum , parameters for fcn entry 63 follow - - f,x(i)
-0.1043995391D+03 0.41005D+00 0.64005D-01 -0.22162D+00 -0.53634D-01 -0.38788D-01 -0.98348D-01 -0.68452D-01 -0.13617D+00
0.11668D+00 0.19082D+00 0.23433D+00 -0.13114D-01 0.22627D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.1043995391D+03 0.41005D+00 0.64005D-01 -0.22162D+00 -0.53634D-01 -0.38788D-01 -0.98348D-01 -0.68452D-01 -0.13617D+00
0.11668D+00 0.19082D+00 0.23433D+00 -0.13114D-01 0.22627D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.1043995391D+03 for entry 63 - - x(i) follows
0.41005D+00 0.64005D-01 -0.22162D+00 -0.53634D-01 -0.38788D-01 -0.98348D-01 -0.68452D-01 -0.13617D+00 0.11668D+00 0.19082D+00
0.23433D+00 -0.13114D-01 0.22627D+00

run statistics follow - -

nfcn= 63 nst= 21

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

MEAN OBSERVED Y FITTED E(Y)
0.2552717D+04 0.2551511D+04
STD.ERROR 0.9733800D+03 0.9469658D+03
SKEWNESS 0.4428551 0.3666058

E(y) at the means : 0.2503594D+04
Sig(y) at the means : 0.1789075D+03
C.o.V. at the means : 0.0714603
Gam(y) at the means : 0.1643246
Pearson-R2 : 0.9643276
Pearson-R2 bar : 0.9569918
Pseudo-(1)-R2 : 0.8963811
Pseudo-(1)-R2 bar : 0.8750724
Error Variance : 0.1761199D+00
Log-likelihood : -0.1967927D+04

FINAL ESTIMATES

VARIABLE LAMBDA(X) COEFFICIENT GRADIENT STD-ERROR STUDENT-T E L A S T I C I T Y E L A S T I C I T Y
y(sample) E(y) y(sample) E(y)
SIGMA(y) SIGMA(y)
GAMMA(y) GAMMA(y)
type group -first obs 14 -first obs 302
-last obs 313 -last obs 313
1 DISCEIN NL 0 0.2609869D+01 0.9210947D-06 0.2596203D+01 1.0053 0.2026 0.2034 0.4322 0.4318
0.8974984D+00 2.9079 0.1574 0.3340
2 LVCEI NL 0 -0.3635931D+00 0.5262135D-06 0.4186676D+00 -0.8685 -0.0158 -0.0158 -0.0602 -0.0602
0.2268563D+00 -1.6027 -0.0122 -0.0465
0.0037 0.0142
3 P08PC NL 0 -0.1175299D+00 0.1048624D-05 0.3259499D+00 -0.3606 -0.0104 -0.0105 -0.0195 -0.0194
0.3097932D+00 -0.3794 -0.0081 -0.0150
0.0025 0.0046
4 PTDEM NL 0 -0.5521245D+00 0.7944192D-06 0.6627479D+00 -0.8331 -0.0368 -0.0369 -0.0914 -0.0913
0.3251978D+00 -1.6978 -0.0286 -0.0707
0.0087 0.0216
5 NCR0UT04 NL 0 -0.1082975D+01 0.7541058D-07 0.9797423D+00 -1.1054 -0.0055 -0.0055 -0.1345 -0.1344
0.3382547D+00 -3.2017 -0.0043 -0.1040
0.0013 0.0318
6 GRPOL NL 0 0.1064080D+00 0.2055312D-07 0.2112529D+00 0.5037 0.0002 0.0002 0.0000 0.0000
0.1919343D+00 0.5544 0.0001 0.0000
0.0000 0.0000
7 STR813 NL 0 0.2025690D-01 0.9473006D-06 0.2194931D-01 0.9229 0.0016 0.0016 0.0036 0.0036
0.1443551D-01 1.4033 0.0013 0.0028
-0.0004 -0.0009
8 STRP NL 0 -0.5436768D-02 0.2634302D-06 0.3657435D-01 -0.1486 -0.0001 -0.0001 -0.0006 -0.0006
0.3656445D-01 -0.1487 -0.0001 -0.0005
0.0000 0.0001
9 STRCUQ NL 0 -0.9591135D-02 0.2527772D-05 0.1163252D-01 -0.8245 -0.0021 -0.0021 -0.0020 -0.0020
0.7319848D-02 -1.3103 -0.0016 -0.0015
0.0005 0.0005
10 GRVOY NL 0 0.6631541D-03 0.1539004D-05 0.7373555D-02 0.0899 0.0001 0.0001 0.0000 0.0000
0.7360931D-02 0.0901 0.0001 0.0000
0.0000 0.0000
11 AUTPKRP NL 0 -0.7686686D+00 0.6485729D-06 0.2343193D+01 -0.3280 -0.0424 -0.0425 -0.0654 -0.0653
0.2135258D+01 -0.3600 -0.0329 -0.0505
0.0100 0.0154

```

12	GRMUMH	NL	0	0.2434822D-01	0.3342159D-06	0.3157653D-01 0.2293783D-01	0.7711 1.0615	0.0007	0.0007 0.0006 -0.0002	0.0000	0.0000 0.0000 0.0000
13	TLK822	NL	0	0.5040264D-03	0.3769477D-03	0.1007002D-02 0.8912980D-03	0.5005 0.5655	0.0165	0.0165 0.0128 -0.0039	0.0157	0.0157 0.0122 -0.0037
14	RFK822	NL	0	0.4064468D-02	0.1502886D-05	0.7296740D-01 0.7296670D-01	0.0557 0.0557	0.0005	0.0005 0.0004 -0.0001	0.0005	0.0005 0.0004 -0.0001
15	SFK822	NL	0	0.7150289D-02	0.4914098D-05	0.1574007D-01 0.1562085D-01	0.4543 0.4577	0.0030	0.0031 0.0024 -0.0007	0.0019	0.0019 0.0015 -0.0005
16	CSFMR822	NL	0	-0.5166110D-02	0.4615485D-04	0.4799595D-02 0.2894989D-02	-1.0764 -1.7845	-0.0206	-0.0207 -0.0160 0.0049	-0.0171	-0.0171 -0.0132 0.0040
17	LOIIND61	NL	0	0.7395716D+00	0.1706756D-05	0.6205507D+00 0.2357340D+00	1.1918 3.1373	0.1078	0.1082 0.0837 -0.0255	0.1225	0.1224 0.0947 -0.0289
18	LOIAS	NL	0	0.1408945D+01	0.4045343D-06	0.1274154D+01 0.1959587D+00	1.1058 7.1900	0.0462	0.0463 0.0359 -0.0109	0.2333	0.2331 0.1803 -0.0551
19	MOP62	NL	0	0.4805822D+00	0.1628077D-05	0.4749588D+00 0.2264064D+00	1.0118 2.1227	0.0668	0.0670 0.0519 -0.0158	0.0796	0.0795 0.0615 -0.0188
20	PRMVACR1	NL	0	0.1598793D+04	0.8539550D-10	0.2338322D+04 0.1670010D+04	0.6837 0.9574	0.0118	0.0118 0.0092 -0.0028	0.0130	0.0130 0.0101 -0.0031
21	KMPARR1	EL	1	0.2158514D-01	0.1155701D-02	0.3350799D-01 0.1018911D-01	0.6442 2.1185	0.4947	0.4967 0.3842 -0.1169	0.5014	0.5010 0.3876 -0.1184
22	DICR1	EL	1	0.3645970D-02	0.4713321D-03	0.4978035D-02 0.3128220D-02	0.7324 1.1655	0.0358	0.0359 0.0278 -0.0084	0.0395	0.0395 0.0305 -0.0093
23	PGRPKM	EL	1	-0.5311410D+01	-0.5246947D-05	0.7183689D+01 0.2448641D+01	-0.7394 -2.1691	-0.3533	-0.3547 -0.2744 0.0834	-0.3851	-0.3848 -0.2977 0.0909
24	PDRQ	EL	1	-0.1016918D+01	-0.3591904D-05	0.2721085D+01 0.2348432D+01	-0.3737 -0.4330	-0.1006	-0.1010 -0.0781 0.0238	-0.1096	-0.1095 -0.0847 0.0259
25	ENTRNMDC	EL	1	-0.1630587D+01	0.1340100D-04	0.8345305D+00 0.4324374D+00	-1.9539 -3.7707	-0.7055	-0.7083 -0.5480 0.1666	-0.7291	-0.7284 -0.5635 0.1721
26	PPAS	EL	1	0.5201666D+01	-0.2929125D-05	0.6603002D+01 0.3198105D+01	0.7878 1.6265	0.5831	0.5854 0.4528 -0.1377	0.6353	0.6347 0.4910 -0.1500
27	SURPOL	EL	1	0.6097734D+00	0.5241619D-05	0.4890055D+00 0.2922993D+00	1.2470 2.0861	0.1666	0.1673 0.1294 -0.0394	0.1603	0.1601 0.1239 -0.0378
28	PERPA	EL	1	-0.7337581D+00	0.5234478D-06	0.1401236D+01 0.1165554D+01	-0.5237 -0.6295	-0.1319	-0.1324 -0.1024 0.0312	-0.1322	-0.1321 -0.1022 0.0312
29	PRCHOM	EL	1	-0.1246550D+01	-0.4514323D-05	0.1705425D+01 0.6933295D+00	-0.7309 -1.7979	-0.1013	-0.1017 -0.0787 0.0239	-0.1081	-0.1080 -0.0835 0.0255
30	PRFEVM	EL	1	-0.2638997D+01	-0.5499739D-05	0.4410265D+01 0.3093198D+01	-0.5984 -0.8532	-0.1625	-0.1631 -0.1262 0.0384	-0.1557	-0.1556 -0.1204 0.0368
31	HEUHM	EL	1	0.3082974D+00	0.1127756D-04	0.1001453D+01 0.1001427D+01	0.3079 0.3079	0.1206	0.1211 0.0937 -0.0285	0.1162	0.1161 0.0898 -0.0274
32	PRMED	EL	1	0.1073693D+01	0.2431366D-05	0.9087735D+00 0.4166889D+00	1.1815 2.5767	0.2334	0.2343 0.1813 -0.0551	0.2391	0.2389 0.1848 -0.0564
33	PRALT	EL	1	-0.1929303D+00	-0.6532015D-06	0.6209333D+00 0.6047167D+00	-0.3107 -0.3190	-0.0303	-0.0304 -0.0236 0.0072	-0.0301	-0.0301 -0.0233 0.0071
34	PRMTRAR1	EL	1	0.1391547D+02	-0.7706641D-05	0.3024132D+02 0.8498665D+01	0.4601 1.6374	0.2534	0.2544 0.1968 -0.0598	0.2366	0.2364 0.1829 -0.0559
35	PRMMAGR1	EL	1	0.1685918D+01	-0.3068302D-05	0.2152687D+01 0.1315896D+01	0.7832 1.2812	0.1843	0.1851 0.1432 -0.0435	0.1823	0.1821 0.1409 -0.0430
36	WD	EL	1	0.4998623D+00	0.8524825D-05	0.4978327D+00 0.4491376D+00	1.0041 1.1129	0.1684	0.1691 0.1308 -0.0398	0.1648	0.1647 0.1274 -0.0389
37	SAT	EL	1	0.6401209D+00	0.3389674D-05	0.4818215D+00 0.2071966D+00	1.3285 3.0894	0.1513	0.1519 0.1175 -0.0357	0.1477	0.1476 0.1142 -0.0349
38	SHD	EL	1	0.3864166D+00	0.3884892D-05	0.3072320D+00 0.1893414D+00	1.2577 2.0408	0.0952	0.0956 0.0739 -0.0225	0.0924	0.0924 0.0715 -0.0218
39	constant	NL	0	0.4719435D+02	0.1952055D-05	0.9062394D+02 0.3431299D+02	0.5208 1.3754	7.9980	8.0297 6.2118 -1.8890	7.8149	7.8079 6.0404 -1.8449
Autocorrelation											
40	rho 1			0.3885175D+00	-0.7802831D-06	0.6353159D-01 0.6339715D-01	6.1153 6.1283				
41	rho 2			0.6391804D-01	-0.8500599D-06	0.7624931D-01 0.7496484D-01	0.8383 0.8526				
42	rho 3			-0.2180591D+00	-0.8654756D-06	0.7067664D-01 0.7057725D-01	-3.0853 -3.0897				
43	rho 4			-0.5358219D-01	-0.2201278D-06	0.6929997D-01 0.6913560D-01	-0.7732 -0.7750				
44	rho 5			-0.3876830D-01	0.1207343D-06	0.7326003D-01 0.7316884D-01	-0.5292 -0.5298				

45 rho 7	-0.9803167D-01	0.5038835D-06	0.7276855D-01 0.7271147D-01	-1.3472 -1.3482
46 rho 8	-0.6834500D-01	0.4297160D-06	0.7592639D-01 0.7590728D-01	-0.9001 -0.9004
47 rho 9	-0.1353341D+00	0.5173617D-06	0.7946695D-01 0.7891074D-01	-1.7030 -1.7150
48 rho 10	0.1161537D+00	0.3970596D-06	0.8157471D-01 0.8157206D-01	1.4239 1.4239
49 rho 11	0.1885354D+00	0.4363445D-06	0.7605954D-01 0.7537048D-01	2.4788 2.5014
50 rho 12	0.2301307D+00	-0.2878163D-06	0.6138472D-01 0.6001669D-01	3.7490 3.8344
51 rho 13	-0.1311348D-01	-0.7872300D-06	0.7149340D-01 0.7149254D-01	-0.1834 -0.1834
Box-cox on (x)				
52 lambda(x) 1 = lambda(y)	0.2262715D+00	0.4967491D-03	0.1097775D+00	2.0612 -7.0482
Residual (w)				
53 error variance	0.1761199D+00	-0.1190159D-12	0.2987293D+00 0.1614051D-01	0.5896 10.9117

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.1129051D+04	0.1111707D+04	0.6145787D+02	-0.1716615D-01
2 LVCEI	-0.1572934D+03	-0.1548771D+03	-0.8561984D+01	0.2391497D-02
3 P08PC	-0.5084442D+02	-0.5006337D+02	-0.2767624D+01	0.7730412D-03
4 PTDEM	-0.2388537D+03	-0.2351845D+03	-0.1300157D+02	0.3631543D-02
5 NCR0UT04	-0.4685040D+03	-0.4613071D+03	-0.2550217D+02	0.7123159D-02
6 GRPOL	0.4603299D+02	0.4532586D+02	0.2505723D+01	-0.6998880D-03
7 STR813	0.8763302D+01	0.8628684D+01	0.4770146D+00	-0.1332377D-03
8 STRP	-0.2351991D+01	-0.2315861D+01	-0.1280264D+00	0.3575979D-04
9 STRCUQ	-0.4149205D+01	-0.4085466D+01	-0.2258545D+00	0.6308472D-04
10 GRVOY	0.2868860D+00	0.2824789D+00	0.1561612D-01	-0.4361829D-05
11 AUTPKRP	-0.3325324D+03	-0.3274242D+03	-0.1810080D+02	0.5055840D-02
12 GRMUMH	0.1053324D+02	0.1037144D+02	0.5733582D+00	-0.1601480D-03
13 TLK822	0.2180460D+00	0.2146965D+00	0.1186894D-01	-0.3315183D-05
14 RFK822	0.1758322D+01	0.1731312D+01	0.9571112D-01	-0.2673363D-04
15 SFK822	0.3093274D+01	0.3045757D+01	0.1683768D+00	-0.4703030D-04
16 CSFMR822	-0.2234902D+01	-0.2200571D+01	-0.1216529D+00	0.3397957D-04
17 LOIIND61	0.3199448D+03	0.3150300D+03	0.1741562D+02	-0.4864458D-02
18 LOIAS	0.6095213D+03	0.6001582D+03	0.3317820D+02	-0.9267194D-02
19 MOP62	0.2079038D+03	0.2047101D+03	0.1131687D+02	-0.3160981D-02
20 PRMVACR1	0.6916511D+06	0.6810263D+06	0.3764878D+05	-0.1051590D+02
21 KMPARR1	0.4818655D-06	0.4744633D-06	0.2622948D-07	-0.7326308D-11
22 DICR1	0.1483772D-05	0.1460979D-05	0.8076648D-07	-0.2255935D-10
23 PGRPKM	-0.5626864D+05	-0.5540426D+05	-0.3062882D+04	0.8555113D+00
24 PDRQ	-0.2770895D+04	-0.2728330D+04	-0.1508287D+03	0.4212884D-01
25 ENTRNMDC	-0.2860773D+02	-0.2816827D+02	-0.1557210D+01	0.4349534D-03
26 PPAS	0.9249199D+04	0.9107117D+04	0.5034635D+03	-0.1406253D+00
27 SURPOL	0.5150908D+02	0.5071782D+02	0.2803804D+01	-0.7831467D-03
28 PERPA	-0.2594540D+03	-0.2554684D+03	-0.1412291D+02	0.3944752D-02

29	PRCHOM	-0.6658287D+04	-0.6556005D+04	-0.3624319D+03	0.1012329D+00
30	PRFEVM	-0.3639322D+05	-0.3583416D+05	-0.1980999D+04	0.5533244D+00
31	HEUHM	0.7635771D+01	0.7518474D+01	0.4156394D+00	-0.1160947D-03
32	PRMED	0.1983209D+03	0.1952743D+03	0.1079524D+02	-0.3015281D-02
33	PRALT	-0.1079343D+03	-0.1062763D+03	-0.5875211D+01	0.1641039D-02
34	PRMTRARI	0.1237409D+08	0.1218401D+08	0.6735615D+06	-0.1881363D+03
35	PRMMAGRI	0.3264702D+04	0.3214551D+04	0.1777082D+03	-0.4963669D-01
36	WD	0.2061362D+02	0.2029696D+02	0.1122065D+01	-0.3134105D-03
37	SAT	0.8883767D+02	0.8747299D+02	0.4835719D+01	-0.1350693D-02
38	SHD	0.4649858D+02	0.4578429D+02	0.2531067D+01	-0.7069668D-03
39	constant	0.2041667D+05	0.2010303D+05	0.1111344D+04	-0.3104160D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1809D+02	-0.6476D+05
SIGMA(y)	0.5528D-01	0.1000D+01	-0.3580D+04
GAMMA(y)	-0.1544D-04	-0.2793D-03	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1293D+01	-0.4251D+01
SIGMA(y)	0.7736D+00	0.1000D+01	-0.3288D+01
GAMMA(y)	-0.2353D+00	-0.3041D+00	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN	0.1000D+01	-0.1393D+00	-0.4503D-01	-0.2116D+00	-0.4150D+00	0.4077D-01	0.7762D-02	-0.2083D-02	-0.3675D-02	0.2541D-03
LVCEI	-0.7178D+01	0.1000D+01	0.3232D+00	0.1519D+01	0.2979D+01	-0.2927D+00	-0.5571D-01	0.1495D-01	0.2638D-01	-0.1824D-02
P08PC	-0.2221D+02	0.3094D+01	0.1000D+01	0.4698D+01	0.9214D+01	-0.9054D+00	-0.1724D+00	0.4626D-01	0.8161D-01	-0.5642D-02
PTDEM	-0.4727D+01	0.6585D+00	0.2129D+00	0.1000D+01	0.1961D+01	-0.1927D+00	-0.3669D-01	0.9847D-02	0.1737D-01	-0.1201D-02
NCROUT04	-0.2410D+01	0.3357D+00	0.1085D+00	0.5098D+00	0.1000D+01	-0.9826D-01	-0.1870D-01	0.5020D-02	0.8856D-02	-0.6123D-03
GRPOL	0.2453D+02	-0.3417D+01	-0.1105D+01	-0.5189D+01	-0.1018D+02	0.1000D+01	0.1904D+00	-0.5109D-01	-0.9014D-01	0.6232D-02
STR813	0.1288D+03	-0.1795D+02	-0.5802D+01	-0.2726D+02	-0.5346D+02	0.5253D+01	0.1000D+01	-0.2684D+00	-0.4735D+00	0.3274D-01
STRP	-0.4800D+03	0.6688D+02	0.2162D+02	0.1016D+03	0.1992D+03	-0.1957D+02	-0.3726D+01	0.1000D+01	0.1764D+01	-0.1220D+00
STRCUQ	-0.2721D+03	0.3791D+02	0.1225D+02	0.5757D+02	0.1129D+03	-0.1109D+02	-0.2112D+01	0.5669D+00	0.1000D+01	-0.6914D-01
GRVOY	0.3936D+04	-0.5483D+03	-0.1772D+03	-0.8326D+03	-0.1633D+04	0.1605D+03	0.3055D+02	-0.8198D+01	-0.1446D+02	0.1000D+01
AUTPKRP	-0.3395D+01	0.4730D+00	0.1529D+00	0.7183D+00	0.1409D+01	-0.1384D+00	-0.2635D-01	0.7073D-02	0.1248D-01	-0.8627D-03
GRMUMH	0.1072D+03	-0.1493D+02	-0.4827D+01	-0.2268D+02	-0.4448D+02	0.4370D+01	0.8320D+00	-0.2233D+00	-0.3939D+00	0.2724D-01
TLK822	0.5178D+04	-0.7214D+03	-0.2332D+03	-0.1095D+04	-0.2149D+04	0.2111D+03	0.4019D+02	-0.1079D+02	-0.1903D+02	0.1316D+01
RFK822	0.6421D+03	-0.8946D+02	-0.2892D+02	-0.1358D+03	-0.2664D+03	0.2618D+02	0.4984D+01	-0.1338D+01	-0.2360D+01	0.1632D+00
SFK822	0.3650D+03	-0.5085D+02	-0.1644D+02	-0.7722D+02	-0.1515D+03	0.1488D+02	0.2833D+01	-0.7604D+00	-0.1341D+01	0.9275D-01
CSFMR822	-0.5052D+03	0.7038D+02	0.2275D+02	0.1069D+03	0.2096D+03	-0.2060D+02	-0.3921D+01	0.1052D+01	0.1857D+01	-0.1284D+00
LOIIND61	0.3529D+01	-0.4916D+00	-0.1589D+00	-0.7465D+00	-0.1464D+01	0.1439D+00	0.2739D-01	-0.7351D-02	-0.1297D-01	0.8967D-03
LOIAS	0.1852D+01	-0.2581D+00	-0.8342D-01	-0.3919D+00	-0.7686D+00	0.7552D-01	0.1438D-01	-0.3859D-02	-0.6807D-02	0.4707D-03
MOP62	0.5431D+01	-0.7566D+00	-0.2446D+00	-0.1149D+01	-0.2253D+01	0.2214D+00	0.4215D-01	-0.1131D-01	-0.1996D-01	0.1380D-02
PRMVACR1	0.1632D-02	-0.2274D-03	-0.7351D-04	-0.3453D-03	-0.6774D-03	0.6656D-04	0.1267D-04	-0.3401D-05	-0.5999D-05	0.4148D-06
KMPARR1	0.2343D+10	-0.3264D+09	-0.1055D+09	-0.4957D+09	-0.9723D+09	0.9553D+08	0.1819D+08	-0.4881D+07	-0.8611D+07	0.5954D+06
DICR1	0.7609D+09	-0.1060D+09	-0.3427D+08	-0.1610D+09	-0.3158D+09	0.3102D+08	0.5906D+07	-0.1585D+07	-0.2796D+07	0.1933D+06

PGRPKM	-0.2007D-01	0.2795D-02	0.9036D-03	0.4245D-02	0.8326D-02	-0.8181D-03	-0.1557D-03	0.4180D-04	0.7374D-04	-0.5099D-05
PDRQ	-0.4075D+00	0.5677D-01	0.1835D-01	0.8620D-01	0.1691D+00	-0.1661D-01	-0.3163D-02	0.8488D-03	0.1497D-02	-0.1035D-03
ENTRNMDC	-0.3947D+02	0.5498D+01	0.1777D+01	0.8349D+01	0.1638D+02	-0.1609D+01	-0.3063D+00	0.8222D-01	0.1450D+00	-0.1003D-01
PPAS	0.1221D+00	-0.1701D-01	-0.5497D-02	-0.2582D-01	-0.5065D-01	0.4977D-02	0.9475D-03	-0.2543D-03	-0.4486D-03	0.3102D-04
SURPOL	0.2192D+02	-0.3054D+01	-0.9871D+00	-0.4637D+01	-0.9096D+01	0.8937D+00	0.1701D+00	-0.4566D-01	-0.8055D-01	0.5570D-02
PERPA	-0.4352D+01	0.6062D+00	0.1960D+00	0.9206D+00	0.1806D+01	-0.1774D+00	-0.3378D-01	0.9065D-02	0.1599D-01	-0.1106D-02
PRCHOM	-0.1696D+00	0.2362D-01	0.7636D-02	0.3587D-01	0.7036D-01	-0.6914D-02	-0.1316D-02	0.3532D-03	0.6232D-03	-0.4309D-04
PRFEVM	-0.3102D-01	0.4322D-02	0.1397D-02	0.6563D-02	0.1287D-01	-0.1265D-02	-0.2408D-03	0.6463D-04	0.1140D-03	-0.7883D-05
HEUHM	0.1479D+03	-0.2060D+02	-0.6659D+01	-0.3128D+02	-0.6136D+02	0.6029D+01	0.1148D+01	-0.3080D+00	-0.5434D+00	0.3757D-01
PRMED	0.5693D+01	-0.7931D+00	-0.2564D+00	-0.1204D+01	-0.2362D+01	0.2321D+00	0.4419D-01	-0.1186D-01	-0.2092D-01	0.1447D-02
PRALT	-0.1046D+02	0.1457D+01	0.4711D+00	0.2213D+01	0.4341D+01	-0.4265D+00	-0.8119D-01	0.2179D-01	0.3844D-01	-0.2658D-02
PRMTRAR1	0.9124D-04	-0.1271D-04	-0.4109D-05	-0.1930D-04	-0.3786D-04	0.3720D-05	0.7082D-06	-0.1901D-06	-0.3353D-06	0.2318D-07
PRMMAGR1	0.3458D+00	-0.4818D-01	-0.1557D-01	-0.7316D-01	-0.1435D+00	0.1410D-01	0.2684D-02	-0.7204D-03	-0.1271D-02	0.8788D-04
WD	0.5477D+02	-0.7631D+01	-0.2467D+01	-0.1159D+02	-0.2273D+02	0.2233D+01	0.4251D+00	-0.1141D+00	-0.2013D+00	0.1392D-01
SAT	0.1271D+02	-0.1771D+01	-0.5723D+00	-0.2689D+01	-0.5274D+01	0.5182D+00	0.9864D-01	-0.2648D-01	-0.4671D-01	0.3229D-02
SHD	0.2428D+02	-0.3383D+01	-0.1093D+01	-0.5137D+01	-0.1008D+02	0.9900D+00	0.1885D+00	-0.5058D-01	-0.8923D-01	0.6170D-02
constant	0.5530D-01	-0.7704D-02	-0.2490D-02	-0.1170D-01	-0.2295D-01	0.2255D-02	0.4292D-03	-0.1152D-03	-0.2032D-03	0.1405D-04
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
X(1)										
DISCEIN	-0.2945D+00	0.9329D-02	0.1931D-03	0.1557D-02	0.2740D-02	-0.1979D-02	0.2834D+00	0.5399D+00	0.1841D+00	0.6126D+03
LVCEI	0.2114D+01	-0.6697D-01	-0.1386D-02	-0.1118D-01	-0.1967D-01	0.1421D-01	-0.2034D+01	-0.3875D+01	-0.1322D+01	-0.4397D+04
P08PC	0.6540D+01	-0.2072D+00	-0.4288D-02	-0.3458D-01	-0.6084D-01	0.4396D-01	-0.6293D+01	-0.1199D+02	-0.4089D+01	-0.1360D+05
PTDEM	0.1392D+01	-0.4410D-01	-0.9129D-03	-0.7362D-02	-0.1295D-01	0.9357D-02	-0.1340D+01	-0.2552D+01	-0.8704D+00	-0.2896D+04
NCROUT04	0.7098D+00	-0.2248D-01	-0.4654D-03	-0.3753D-02	-0.6602D-02	0.4770D-02	-0.6829D+00	-0.1301D+01	-0.4438D+00	-0.1476D+04
GRPOL	-0.7224D+01	0.2288D+00	0.4737D-02	0.3820D-01	0.6720D-01	-0.4855D-01	0.6950D+01	0.1324D+02	0.4516D+01	0.1503D+05
STR813	-0.3795D+02	0.1202D+01	0.2488D-01	0.2006D+00	0.3530D+00	-0.2550D+00	0.3651D+02	0.6955D+02	0.2372D+02	0.7893D+05
STRP	0.1414D+03	-0.4478D+01	-0.9271D-01	-0.7476D+00	-0.1315D+01	0.9502D+00	-0.1360D+03	-0.2592D+03	-0.8839D+02	-0.2941D+06
STRCUQ	0.8014D+02	-0.2539D+01	-0.5255D-01	-0.4238D+00	-0.7455D+00	0.5386D+00	-0.7711D+02	-0.1469D+03	-0.5011D+02	-0.1667D+06
GRVOY	-0.1159D+04	0.3672D+02	0.7600D+00	0.6129D+01	0.1078D+02	-0.7790D+01	0.1115D+04	0.2125D+04	0.7247D+03	0.2411D+07
AUTPKRP	0.1000D+01	-0.3168D-01	-0.6557D-03	-0.5288D-02	-0.9302D-02	0.6721D-02	-0.9621D+00	-0.1833D+01	-0.6252D+00	-0.2080D+04
GRMUMH	-0.3157D+02	0.1000D+01	0.2070D-01	0.1669D+00	0.2937D+00	-0.2122D+00	0.3037D+02	0.5787D+02	0.1974D+02	0.6566D+05
TLK822	-0.1525D+04	0.4831D+02	0.1000D+01	0.8064D+01	0.1419D+02	-0.1025D+02	0.1467D+04	0.2795D+04	0.9535D+03	0.3172D+07
RFK822	-0.1891D+03	0.5991D+01	0.1240D+00	0.1000D+01	0.1759D+01	-0.1271D+01	0.1820D+03	0.3466D+03	0.1182D+03	0.3934D+06
SFK822	-0.1075D+03	0.3405D+01	0.7049D-01	0.5684D+00	0.1000D+01	-0.7225D+00	0.1034D+03	0.1970D+03	0.6721D+02	0.2236D+06
CSFMR822	0.1488D+03	-0.4713D+01	-0.9756D-01	-0.7868D+00	-0.1384D+01	0.1000D+01	-0.1432D+03	-0.2727D+03	-0.9303D+02	-0.3095D+06
LOIIND61	-0.1039D+01	0.3292D-01	0.6815D-03	0.5496D-02	0.9668D-02	-0.6985D-02	0.1000D+01	0.1905D+01	0.6498D+00	0.2162D+04
LOIAS	-0.5456D+00	0.1728D-01	0.3577D-03	0.2885D-02	0.5075D-02	-0.3667D-02	0.5249D+00	0.1000D+01	0.3411D+00	0.1135D+04
MOP62	-0.1599D+01	0.5066D-01	0.1049D-02	0.8457D-02	0.1488D-01	-0.1075D-01	0.1539D+01	0.2932D+01	0.1000D+01	0.3327D+04
PRMVACR1	-0.4808D-03	0.1523D-04	0.3153D-06	0.2542D-05	0.4472D-05	-0.3231D-05	0.4626D-03	0.8813D-03	0.3006D-03	0.1000D+01
KMPARR1	-0.6901D+09	0.2186D+08	0.4525D+06	0.3649D+07	0.6419D+07	-0.4638D+07	0.6640D+09	0.1265D+10	0.4315D+09	0.1435D+13
DICR1	-0.2241D+09	0.7099D+07	0.1470D+06	0.1185D+07	0.2085D+07	-0.1506D+07	0.2156D+09	0.4108D+09	0.1401D+09	0.4661D+12
PGRPKM	0.5910D-02	-0.1872D-03	-0.3875D-05	-0.3125D-04	-0.5497D-04	0.3972D-04	-0.5686D-02	-0.1083D-01	-0.3695D-02	-0.1229D+02
PDRQ	0.1200D+00	-0.3801D-02	-0.7869D-04	-0.6346D-03	-0.1116D-02	0.8066D-03	-0.1155D+00	-0.2200D+00	-0.7503D-01	-0.2496D+03
ENTRNMDC	0.1162D+02	-0.3682D+00	-0.7622D-02	-0.6146D-01	-0.1081D+00	0.7812D-01	-0.1118D+02	-0.2131D+02	-0.7267D+01	-0.2418D+05
PPAS	-0.3595D-01	0.1139D-02	0.2357D-04	0.1901D-03	0.3344D-03	-0.2416D-03	0.3459D-01	0.6590D-01	0.2248D-01	0.7478D+02
SURPOL	-0.6456D+01	0.2045D+00	0.4233D-02	0.3414D-01	0.6005D-01	-0.4339D-01	0.6211D+01	0.1183D+02	0.4036D+01	0.1343D+05
PERPA	0.1282D+01	-0.4060D-01	-0.8404D-03	-0.6777D-02	-0.1192D-01	0.8614D-02	-0.1233D+01	-0.2349D+01	-0.8013D+00	-0.2666D+04
PRCHOM	0.4994D-01	-0.1582D-02	-0.3275D-04	-0.2641D-03	-0.4646D-03	0.3357D-03	-0.4805D-01	-0.9154D-01	-0.3122D-01	-0.1039D+03
PRFEVM	0.9137D-02	-0.2894D-03	-0.5991D-05	-0.4831D-04	-0.8500D-04	0.6141D-04	-0.8791D-02	-0.1675D-01	-0.5713D-02	-0.1900D+02
HEUHM	-0.4355D+02	0.1379D+01	0.2856D-01	0.2303D+00	0.4051D+00	-0.2927D+00	0.4190D+02	0.7982D+02	0.2723D+02	0.9058D+05

PRMED	-0.1677D+01	0.5311D-01	0.1099D-02	0.8866D-02	0.1560D-01	-0.1127D-01	0.1613D+01	0.3073D+01	0.1048D+01	0.3488D+04	
PRALT	0.3081D+01	-0.9759D-01	-0.2020D-02	-0.1629D-01	-0.2866D-01	0.2071D-01	-0.2964D+01	-0.5647D+01	-0.1926D+01	-0.6408D+04	
PRMTRAR1	-0.2687D-04	0.8512D-06	0.1762D-07	0.1421D-06	0.2500D-06	-0.1806D-06	0.2586D-04	0.4926D-04	0.1680D-04	0.5590D-01	
PRMMAGR1	-0.1019D+00	0.3226D-02	0.6679D-04	0.5386D-03	0.9475D-03	-0.6846D-03	0.9800D-01	0.1867D+00	0.6368D-01	0.2119D+03	
WD	-0.1613D+02	0.5110D+00	0.1058D-01	0.8530D-01	0.1501D+00	-0.1084D+00	0.1552D+02	0.2957D+02	0.1009D+02	0.3355D+05	
SAT	-0.3743D+01	0.1186D+00	0.2454D-02	0.1979D-01	0.3482D-01	-0.2516D-01	0.3601D+01	0.6861D+01	0.2340D+01	0.7786D+04	
SHD	-0.7151D+01	0.2265D+00	0.4689D-02	0.3781D-01	0.6652D-01	-0.4806D-01	0.6881D+01	0.1311D+02	0.4471D+01	0.1487D+05	
constant	-0.1629D-01	0.5159D-03	0.1068D-04	0.8612D-04	0.1515D-03	-0.1095D-03	0.1567D-01	0.2985D-01	0.1018D-01	0.3388D+02	
X(1)	X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
DISCEIN	0.4268D-09	0.1314D-08	-0.4984D+02	-0.2454D+01	-0.2534D-01	0.8192D+01	0.4562D-01	-0.2298D+00	-0.5897D+01	-0.3223D+02	
LVCEI	-0.3063D-08	-0.9433D-08	0.3577D+03	0.1762D+02	0.1819D+00	-0.5880D+02	-0.3275D+00	0.1649D+01	0.4233D+02	0.2314D+03	
P08PC	-0.9477D-08	-0.2918D-07	0.1107D+04	0.5450D+02	0.5627D+00	-0.1819D+03	-0.1013D+01	0.5103D+01	0.1310D+03	0.7158D+03	
PTDEM	-0.2017D-08	-0.6212D-08	0.2356D+03	0.1160D+02	0.1198D+00	-0.3872D+02	-0.2157D+00	0.1086D+01	0.2788D+02	0.1524D+03	
NCROUT04	-0.1029D-08	-0.3167D-08	0.1201D+03	0.5914D+01	0.6106D-01	-0.1974D+02	-0.1099D+00	0.5538D+00	0.1421D+02	0.7768D+02	
GRPOL	0.1047D-07	0.3223D-07	-0.1222D+04	-0.6019D+02	-0.6215D+00	0.2009D+03	0.1119D+01	-0.5636D+01	-0.1446D+03	-0.7906D+03	
STR813	0.5499D-07	0.1693D-06	-0.6421D+04	-0.3162D+03	-0.3264D+01	0.1055D+04	0.5878D+01	-0.2961D+02	-0.7598D+03	-0.4153D+04	
STRP	-0.2049D-06	-0.6309D-06	0.2392D+05	0.1178D+04	0.1216D+02	-0.3932D+04	-0.2190D+02	0.1103D+03	0.2831D+04	0.1547D+05	
STRCUQ	-0.1161D-06	-0.3576D-06	0.1356D+05	0.6678D+03	0.6895D+01	-0.2229D+04	-0.1241D+02	0.6253D+02	0.1605D+04	0.8771D+04	
GRVOY	0.1680D-05	0.5172D-05	-0.1961D+06	-0.9659D+04	-0.9972D+02	0.3224D+05	0.1795D+03	-0.9044D+03	-0.2321D+05	-0.1269D+06	
AUTPKRP	-0.1449D-08	-0.4462D-08	0.1692D+03	0.8333D+01	0.8603D-01	-0.2781D+02	-0.1549D+00	0.7802D+00	0.2002D+02	0.1094D+03	
GRMUMH	0.4575D-07	0.1409D-06	-0.5342D+04	-0.2631D+03	-0.2716D+01	0.8781D+03	0.4890D+01	-0.2463D+02	-0.6321D+03	-0.3455D+04	
TLK822	0.2210D-05	0.6805D-05	-0.2581D+06	-0.1271D+05	-0.1312D+03	0.4242D+05	0.2362D+03	-0.1190D+04	-0.3054D+05	-0.1669D+06	
RFK822	0.2740D-06	0.8439D-06	-0.3200D+05	-0.1576D+04	-0.1627D+02	0.5260D+04	0.2929D+02	-0.1476D+03	-0.3787D+04	-0.2070D+05	
SFK822	0.1558D-06	0.4797D-06	-0.1819D+05	-0.8958D+03	-0.9248D+01	0.2990D+04	0.1665D+02	-0.8388D+02	-0.2153D+04	-0.1177D+05	
CSFMR822	-0.2156D-06	-0.6639D-06	0.2518D+05	0.1240D+04	0.1280D+02	-0.4139D+04	-0.2305D+02	0.1161D+03	0.2979D+04	0.1628D+05	
LOIIND61	0.1506D-08	0.4638D-08	-0.1759D+03	-0.8661D+01	-0.8941D-01	0.2891D+02	0.1610D+00	-0.8109D+00	-0.2081D+02	-0.1137D+03	
LOIAS	0.7906D-09	0.2434D-08	-0.9232D+02	-0.4546D+01	-0.4693D-01	0.1517D+02	0.8451D-01	-0.4257D+00	-0.1092D+02	-0.5971D+02	
MOP62	0.2318D-08	0.7137D-08	-0.2706D+03	-0.1333D+02	-0.1376D+00	0.4449D+02	0.2478D+00	-0.1248D+01	-0.3203D+02	-0.1750D+03	
PRMVACR1	0.6967D-12	0.2145D-11	-0.8135D-01	-0.4006D-02	-0.4136D-04	0.1337D-01	0.7447D-04	-0.3751D-03	-0.9627D-02	-0.5262D-01	
KMPARR1	0.1000D+01	0.3079D+01	-0.1168D+12	-0.5750D+10	-0.5937D+08	0.1919D+11	0.1069D+09	-0.5384D+09	-0.1382D+11	-0.7553D+11	
DICR1	0.3248D+00	0.1000D+01	-0.3792D+11	-0.1867D+10	-0.1928D+08	0.6234D+10	0.3471D+08	-0.1749D+09	-0.4487D+10	-0.2453D+11	
PGRPKM	-0.8564D-11	-0.2637D-10	0.1000D+01	0.4924D-01	0.5084D-03	-0.1644D+00	-0.9154D-03	0.4611D-02	0.1183D+00	0.6468D+00	
PDRQ	-0.1739D-09	-0.5355D-09	0.2031D+02	0.1000D+01	0.1032D-01	-0.3338D+01	-0.1859D-01	0.9364D-01	0.2403D+01	0.1313D+02	
ENTRNMDC	-0.1684D-07	-0.5187D-07	0.1967D+04	0.9686D+02	0.1000D+01	-0.3233D+03	-0.1801D+01	0.9069D+01	0.2327D+03	0.1272D+04	
PPAS	0.5210D-10	0.1604D-09	-0.6084D+01	-0.2996D+00	-0.3093D-02	0.1000D+01	0.5569D-02	-0.2805D-01	-0.7199D+00	-0.3935D+01	
SURPOL	0.9355D-08	0.2881D-07	-0.1092D+04	-0.5379D+02	-0.5554D+00	0.1796D+03	0.1000D+01	-0.5037D+01	-0.1293D+03	-0.7065D+03	
PERPA	-0.1857D-08	-0.5719D-08	0.2169D+03	0.1068D+02	0.1103D+00	-0.3565D+02	-0.1985D+00	0.1000D+01	0.2566D+02	0.1403D+03	
PRCHOM	-0.7237D-10	-0.2228D-09	0.8451D+01	0.4162D+00	0.4297D-02	-0.1389D+01	-0.7736D-02	0.3897D-01	0.1000D+01	0.5466D+01	
PRFEVM	-0.1324D-10	-0.4077D-10	0.1546D+01	0.7614D-01	0.7861D-03	-0.2541D+00	-0.1415D-02	0.7129D-02	0.1830D+00	0.1000D+01	
HEUHM	0.6311D-07	0.1943D-06	-0.7369D+04	-0.3629D+03	-0.3747D+01	0.1211D+04	0.6746D+01	-0.3398D+02	-0.8720D+03	-0.4766D+04	
PRMED	0.2430D-08	0.7482D-08	-0.2837D+03	-0.1397D+02	-0.1442D+00	0.4664D+02	0.2597D+00	-0.1308D+01	-0.3357D+02	-0.1835D+03	
PRALT	-0.4464D-08	-0.1375D-07	0.5213D+03	0.2567D+02	0.2650D+00	-0.8569D+02	-0.4772D+00	0.2404D+01	0.6169D+02	0.3372D+03	
PRMTRAR1	0.3894D-13	0.1199D-12	-0.4547D-02	-0.2239D-03	-0.2312D-05	0.7475D-03	0.4163D-05	-0.2097D-04	-0.5381D-03	-0.2941D-02	
PRMMAGR1	0.1476D-09	0.4545D-09	-0.1724D+02	-0.8487D+00	-0.8763D-02	0.2833D+01	0.1578D-01	-0.7947D-01	-0.2039D+01	-0.1115D+02	
WD	0.2338D-07	0.7198D-07	-0.2730D+04	-0.1344D+03	-0.1388D+01	0.4487D+03	0.2499D+01	-0.1259D+02	-0.3230D+03	-0.1765D+04	
SAT	0.5424D-08	0.1670D-07	-0.6334D+03	-0.3119D+02	-0.3220D+00	0.1041D+03	0.5798D+00	-0.2921D+01	-0.7495D+02	-0.4097D+03	
SHD	0.1036D-07	0.3191D-07	-0.1210D+04	-0.5959D+02	-0.6152D+00	0.1989D+03	0.1108D+01	-0.5580D+01	-0.1432D+03	-0.7827D+03	
constant	0.2360D-10	0.7267D-10	-0.2756D+01	-0.1357D+00	-0.1401D-02	0.4530D+00	0.2523D-02	-0.1271D-01	-0.3261D+00	-0.1783D+01	
	X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	

X(1)

DISCEIN	0.6763D-02	0.1757D+00	-0.9560D-01	0.1096D+05	0.2892D+01	0.1826D-01	0.7868D-01	0.4118D-01	0.1808D+02
LVCEI	-0.4854D-01	-0.1261D+01	0.6862D+00	-0.7867D+05	-0.2076D+02	-0.1311D+00	-0.5648D+00	-0.2956D+00	-0.1298D+03
P08PC	-0.1502D+00	-0.3901D+01	0.2123D+01	-0.2434D+06	-0.6421D+02	-0.4054D+00	-0.1747D+01	-0.9145D+00	-0.4016D+03
PTDEM	-0.3197D-01	-0.8303D+00	0.4519D+00	-0.5181D+05	-0.1367D+02	-0.8630D-01	-0.3719D+00	-0.1947D+00	-0.8548D+02
NCR0UT04	-0.1630D-01	-0.4233D+00	0.2304D+00	-0.2641D+05	-0.6968D+01	-0.4400D-01	-0.1896D+00	-0.9925D-01	-0.4358D+02
GRPOL	0.1659D+00	0.4308D+01	-0.2345D+01	0.2688D+06	0.7092D+02	0.4478D+00	0.1930D+01	0.1010D+01	0.4435D+03
STR813	0.8713D+00	0.2263D+02	-0.1232D+02	0.1412D+07	0.3725D+03	0.2352D+01	0.1014D+02	0.5306D+01	0.2330D+04
STRP	-0.3247D+01	-0.8432D+02	0.4589D+02	-0.5261D+07	-0.1388D+04	-0.8764D+01	-0.3777D+02	-0.1977D+02	-0.8681D+04
STRCUQ	-0.1840D+01	-0.4780D+02	0.2601D+02	-0.2982D+07	-0.7868D+03	-0.4968D+01	-0.2141D+02	-0.1121D+02	-0.4921D+04
GRVOY	0.2662D+02	0.6913D+03	-0.3762D+03	0.4313D+08	0.1138D+05	0.7185D+02	0.3097D+03	0.1621D+03	0.7117D+05
AUTPKRP	-0.2296D-01	-0.5964D+00	0.3246D+00	-0.3721D+05	-0.9818D+01	-0.6199D-01	-0.2672D+00	-0.1398D+00	-0.6140D+02
GRMUMH	0.7249D+00	0.1883D+02	-0.1025D+02	0.1175D+07	0.3099D+03	0.1957D+01	0.8434D+01	0.4414D+01	0.1938D+04
TLK822	0.3502D+02	0.9095D+03	-0.4950D+03	0.5675D+08	0.1497D+05	0.9454D+02	0.4074D+03	0.2133D+03	0.9363D+05
RFK822	0.4343D+01	0.1128D+03	-0.6138D+02	0.7037D+07	0.1857D+04	0.1172D+02	0.5052D+02	0.2644D+02	0.1161D+05
SFK822	0.2469D+01	0.6411D+02	-0.3489D+02	0.4000D+07	0.1055D+04	0.6664D+01	0.2872D+02	0.1503D+02	0.6600D+04
CSFMR822	-0.3417D+01	-0.8874D+02	0.4829D+02	-0.5537D+07	-0.1461D+04	-0.9223D+01	-0.3975D+02	-0.2081D+02	-0.9135D+04
LOIIND61	0.2387D-01	0.6199D+00	-0.3374D+00	0.3868D+05	0.1020D+02	0.6443D-01	0.2777D+00	0.1453D+00	0.6381D+02
LOIAS	0.1253D-01	0.3254D+00	-0.1771D+00	0.2030D+05	0.5356D+01	0.3382D-01	0.1457D+00	0.7629D-01	0.3350D+02
MOP62	0.3673D-01	0.9539D+00	-0.5192D+00	0.5952D+05	0.1570D+02	0.9915D-01	0.4273D+00	0.2237D+00	0.9820D+02
PRMVACR1	0.1104D-04	0.2867D-03	-0.1561D-03	0.1789D+02	0.4720D-02	0.2980D-04	0.1284D-03	0.6723D-04	0.2952D-01
KMPARR1	0.1585D+08	0.4116D+09	-0.2240D+09	0.2568D+14	0.6775D+10	0.4278D+08	0.1844D+09	0.9650D+08	0.4237D+11
DICR1	0.5146D+07	0.1337D+09	-0.7274D+08	0.8340D+13	0.2200D+10	0.1389D+08	0.5987D+08	0.3134D+08	0.1376D+11
PGRPKM	-0.1357D-03	-0.3525D-02	0.1918D-02	-0.2199D+03	-0.5802D-01	-0.3663D-03	-0.1579D-02	-0.8264D-03	-0.3628D+00
PDRQ	-0.2756D-02	-0.7157D-01	0.3895D-01	-0.4466D+04	-0.1178D+01	-0.7439D-02	-0.3206D-01	-0.1678D-01	-0.7368D+01
ENTRNMDC	-0.2669D+00	-0.6932D+01	0.3773D+01	-0.4325D+06	-0.1141D+03	-0.7206D+00	-0.3105D+01	-0.1625D+01	-0.7137D+03
PPAS	0.8256D-03	0.2144D-01	-0.1167D-01	0.1338D+04	0.3530D+00	0.2229D-02	0.9605D-02	0.5027D-02	0.2207D+01
SURPOL	0.1482D+00	0.3850D+01	-0.2095D+01	0.2402D+06	0.6338D+02	0.4002D+00	0.1725D+01	0.9027D+00	0.3964D+03
PERPA	-0.2943D-01	-0.7644D+00	0.4160D+00	-0.4769D+05	-0.1258D+02	-0.7945D-01	-0.3424D+00	-0.1792D+00	-0.7869D+02
PRCHOM	-0.1147D-02	-0.2979D-01	0.1621D-01	-0.1858D+04	-0.4903D+00	-0.3096D-02	-0.1334D-01	-0.6984D-02	-0.3066D+01
PRFEVM	-0.2098D-03	-0.5449D-02	0.2966D-02	-0.3400D+03	-0.8971D-01	-0.5664D-03	-0.2441D-02	-0.1278D-02	-0.5610D+00
HEUHM	0.1000D+01	0.2597D+02	-0.1414D+02	0.1621D+07	0.4276D+03	0.2700D+01	0.1163D+02	0.6090D+01	0.2674D+04
PRMED	0.3850D-01	0.1000D+01	-0.5442D+00	0.6239D+05	0.1646D+02	0.1039D+00	0.4479D+00	0.2345D+00	0.1029D+03
PRALT	-0.7074D-01	-0.1837D+01	0.1000D+01	-0.1146D+06	-0.3025D+02	-0.1910D+00	-0.8231D+00	-0.4308D+00	-0.1892D+03
PRMTRAR1	0.6171D-06	0.1603D-04	-0.8723D-05	0.1000D+01	0.2638D-03	0.1666D-05	0.7179D-05	0.3758D-05	0.1650D-02
PRMMAGR1	0.2339D-02	0.6075D-01	-0.3306D-01	0.3790D+04	0.1000D+01	0.6314D-02	0.2721D-01	0.1424D-01	0.6254D+01
WD	0.3704D+00	0.9621D+01	-0.5236D+01	0.6003D+06	0.1584D+03	0.1000D+01	0.4310D+01	0.2256D+01	0.9904D+03
SAT	0.8595D-01	0.2232D+01	-0.1215D+01	0.1393D+06	0.3675D+02	0.2320D+00	0.1000D+01	0.5234D+00	0.2298D+03
SHD	0.1642D+00	0.4265D+01	-0.2321D+01	0.2661D+06	0.7021D+02	0.4433D+00	0.1911D+01	0.1000D+01	0.4391D+03
constant	0.3740D-03	0.9714D-02	-0.5287D-02	0.6061D+03	0.1599D+00	0.1010D-02	0.4351D-02	0.2277D-02	0.1000D+01

Log-likelihood

- initial value :	-2147.3956
- final value :	-1967.9270
- ratio test :	358.9372

Pearson-r2 :	0.9643
Pearson-r2 bar :	0.9570
Pseudo-(1)-r2 :	0.8964
Pseudo-(1)-r2 bar :	0.8751
Std-error of (w) :	0.4197

```

Number of observations      first-last obs.no.

- sample      :      313          1 -      313

- estimation   :      300          14 -      313

```

CPU TIME: 3.03 sec

Output file 7: ACC_bc1au.txt

```

&CARD1
NOBS      =      313,
NC        =      14,
NF        =      313,
NFP       =      313,
NOBEL     =      12,
NM        =      0,
NSTEP     =      500,
EPSI      = 1.000000000000000E-007,
WGHT      = 1.000000000000000
/
&CARD2
NB        =      42,
NRO       =      9,
NSL       =      23,
NGF       =      0,
MAXF      =      0,
NGV       =      1,
MAXV      =      19,
NLY       =      2,
NDM       =     -1,
NLE       =      0,
ND        =      0
/
&CARD3
NCOR      =      0,
NRES      =      0,
NPW       =      0,
NGUVW     =      0,
NPDQL     =      0,
NCOV      =      0,
NEY       =      0,
VARNAME   = ac_bc1au ,
NVARIANT  =      29
/

```

Working space used : 35778 out of 500000

```

autocorrelation of orders:      1      2      3      4
      5      7      9      10     12
rho initial values: 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
21 22 23

```

```

group      1 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

```

```

lambda(y) is set equal to lambda(x) of group no.      1
lambda(y) initial value: 1.000000000000000
upper limit for y  0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	ACC	0.33340D+04	0.11488D+05	0.27223D+05	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309

13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	DUM78RAU	0.00000D+00	0.38339D-01	0.10000D+01	301
22	SED78RAU	0.00000D+00	0.17572D-01	0.91667D+00	302
23	CONSTA	0.00000D+00	0.13738D+00	0.10000D+01	270
24	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
25	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
26	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
27	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
28	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
29	FPAS	0.10000D+00	0.15846D+00	0.26970D+00	0
30	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
31	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
32	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
33	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
34	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
35	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
36	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
37	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
38	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
39	DMSR	0.77071D+02	0.98877D+02	0.15414D+03	0
40	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
41	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
42	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
43	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	E (y)
	type	group					y (sample)	E (y)		SIGMA (y)
										GAMMA (y)
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	0.8488113D+04	0.4581333D+00	0.2300413D+04	3.6898	0.3302	0.3302	0.6418	0.6492
								0.0000		0.0001
								1.0071		1.9735
2 LVCEI	NL	0	0.1069712D+04	0.2558333D+00	0.5217242D+03	2.0503	0.0232	0.0232	0.0809	0.0818
								0.0000		0.0000
								0.0709		0.2487
3 P08PC	NL	0	0.3902447D+03	0.5233333D+00	0.5382501D+03	0.7250	0.0173	0.0173	0.0295	0.0298
								0.0000		0.0000
								0.0529		0.0907
4 PTDEM	NL	0	-0.2313275D+04	0.3933333D+00	0.6162875D+03	-3.7536	-0.0773	-0.0773	-0.1749	-0.1769
								0.0000		0.0000
								-0.2356		-0.5378
5 NCRROUT04	NL	0	-0.1891631D+04	0.3000000D-01	0.7735703D+03	-2.4453	-0.0048	-0.0048	-0.1073	-0.1085
								0.0000		0.0000
								-0.0147		-0.3299
6 GRPOL	NL	0	-0.8812288D+03	0.1055554D-01	0.5106458D+03	-1.7257	-0.0008	-0.0008	0.0000	0.0000
								0.0000		0.0000
								-0.0024		0.0000
7 STR813	NL	0	0.5374465D+02	0.4733333D+00	0.3045675D+02	1.7646	0.0022	0.0022	0.0044	0.0045
								0.0000		0.0000
								0.0066		0.0135
8 STRP	NL	0	0.3555348D+02	0.1266667D+00	0.5652950D+02	0.6289	0.0004	0.0004	0.0018	0.0018
								0.0000		0.0000
								0.0012		0.0055
9 STRCUQ	NL	0	-0.1442837D+02	0.1300000D+01	0.1700716D+02	-0.8484	-0.0016	-0.0016	-0.0014	-0.0014
								0.0000		0.0000
								-0.0049		-0.0042
10 GRVOY	NL	0	0.1620624D+02	0.7900000D+00	0.1881790D+02	0.8612	0.0011	0.0011	0.0000	0.0000
								0.0000		0.0000
								0.0033		0.0000
11 AUTPKRP	NL	0	-0.1230333D+05	0.3251368D+00	0.4309822D+04	-2.8547	-0.3397	-0.3397	-0.4780	-0.4835
								0.0000		0.0000
								-1.0360		-1.4698
12 GRMUMH	NL	0	-0.6296728D+02	0.1716667D+00	0.4148820D+02	-1.5177	-0.0009	-0.0009	0.0000	0.0000
								0.0000		0.0000
								-0.0028		0.0000
13 TLK822	NL	0	0.8442822D+01	0.1928373D+03	0.9863516D+00	8.5596	0.1382	0.1383	0.1203	0.1217
								0.0000		0.0000
								0.4216		0.3700
14 RFK822	NL	0	0.5004573D+03	0.7708521D+00	0.1807166D+03	2.7693	0.0328	0.0328	0.0286	0.0290
								0.0000		0.0000
								0.0999		0.0881
15 SFK822	NL	0	0.1759436D+03	0.2509268D+01	0.3874360D+02	4.5412	0.0375	0.0375	0.0218	0.0220
								0.0000		0.0000
								0.1143		0.0669
16 CSFMR822	NL	0	-0.4157608D+01	0.2353299D+02	0.5223681D+01	-0.7959	-0.0083	-0.0083	-0.0063	-0.0064
								0.0000		0.0000
								-0.0253		-0.0193
17 LOIIND61	NL	0	0.1629851D+04	0.8600000D+00	0.4980679D+03	3.2723	0.1190	0.1190	0.1232	0.1247
								0.0000		0.0000
								0.3630		0.3789
18 LOIAS	NL	0	0.8483985D+03	0.1933333D+00	0.7446001D+03	1.1394	0.0139	0.0139	0.0642	0.0649
								0.0000		0.0000
								0.0425		0.1973
19 MOP62	NL	0	0.8071357D+03	0.8200000D+00	0.6001322D+03	1.3449	0.0562	0.0562	0.0610	0.0617
								0.0000		0.0000
								0.1714		0.1877
20 PRMVACR1	NL	0	0.7149590D+07	0.4349227D-04	0.3170375D+07	2.2551	0.0264	0.0264	0.0266	0.0269
								0.0000		0.0000
								0.0805		0.0819

21	DUM78RAU	NL	0	0.1675097D+04	0.4000000D-01	0.1015974D+04	1.6488	0.0057	0.0057	0.0000	0.0000
									0.0000		0.0000
									0.0174		0.0000
22	SED78RAU	NL	0	-0.1771513D+04	0.1833333D-01	0.1343928D+04	-1.3182	-0.0028	-0.0028	0.0000	0.0000
									0.0000		0.0000
									-0.0084		0.0000
23	CONSTA	NL	0	-0.1586955D+03	0.1433333D+00	0.7767667D+03	-0.2043	-0.0019	-0.0019	-0.0120	-0.0121
									0.0000		0.0000
									-0.0059		-0.0369
24	KMPARR1	EL	1	0.3633551D-05	0.2620907D+10	0.1284279D-05	2.8293	0.8086	0.8087	0.8465	0.8561
									0.0001		0.0001
									2.4663		2.6027
25	DICR1	EL	1	-0.1054489D-06	0.6151215D+08	0.8650609D-05	-0.0122	-0.0006	-0.0006	-0.0008	-0.0009
									0.0000		0.0000
									-0.0017		-0.0026
26	PGRPKM	EL	1	-0.1735993D+06	0.1602677D-01	0.1268108D+06	-1.3690	-0.2362	-0.2363	-0.3412	-0.3451
									0.0000		0.0000
									-0.7205		-1.0492
27	PDRQ	EL	1	-0.6307560D+05	0.9268908D-01	0.3593244D+05	-1.7554	-0.4964	-0.4965	-0.7155	-0.7236
									0.0000		-0.0001
									-1.5141		-2.1999
28	ENTRNMD	EL	1	-0.1226690D+03	0.6295400D+02	0.4019588D+02	-3.0518	-0.6557	-0.6558	-0.7481	-0.7566
									0.0000		-0.0001
									-2.0000		-2.3001
29	PPAS	EL	1	0.7113346D+05	0.1609208D+00	0.2621314D+05	2.7137	0.9720	0.9721	1.4009	1.4169
									0.0001		0.0001
									2.9645		4.3074
30	SURPOL	EL	1	0.5034185D+03	0.8257199D+01	0.1368602D+03	3.6783	0.3530	0.3530	0.2932	0.2965
									0.0000		0.0000
									1.0765		0.9014
31	PERPA	EL	1	-0.2436147D+04	0.1297782D+01	0.2188952D+04	-1.1129	-0.2685	-0.2685	-0.2676	-0.2707
									0.0000		0.0000
									-0.8188		-0.8229
32	PRCHOM	EL	1	-0.5326556D+05	0.3883502D-01	0.1316018D+05	-4.0475	-0.1756	-0.1757	-0.2308	-0.2334
									0.0000		0.0000
									-0.5357		-0.7096
33	PRFEVM	EL	1	0.1188453D+06	0.1139801D-01	0.2040758D+06	0.5824	0.1150	0.1150	0.0940	0.0951
									0.0000		0.0000
									0.3508		0.2890
34	HEUHM	EL	1	-0.2852535D-01	0.4031700D+02	0.1404345D+03	-0.0002	-0.0001	-0.0001	-0.0001	-0.0001
									0.0000		0.0000
									-0.0003		-0.0003
35	PRMED	EL	1	0.9565823D+03	0.3003970D+01	0.3295432D+03	2.9028	0.2440	0.2440	0.2677	0.2708
									0.0000		0.0000
									0.7442		0.8232
36	PRALT	EL	1	0.4919383D+04	0.7172662D+00	0.1184972D+04	4.1515	0.2996	0.2996	0.2864	0.2896
									0.0000		0.0000
									0.9138		0.8805
37	PRMTRAR1	EL	1	0.1526628D+09	0.5226830D-04	0.4839840D+08	3.1543	0.6775	0.6776	0.4938	0.4995
									0.0000		0.0000
									2.0665		1.5183
38	PRMMAGR1	EL	1	-0.1592974D+05	0.1441229D+00	0.9635899D+04	-1.6532	-0.1949	-0.1950	-0.1832	-0.1853
									0.0000		0.0000
									-0.5946		-0.5634
39	DMSR	EL	1	-0.7555712D+02	0.9886286D+02	0.8100365D+01	-9.3276	-0.6343	-0.6343	-0.4752	-0.4807
									0.0000		0.0000
									-1.9345		-1.4612
40	WD	EL	1	0.2135439D+03	0.2086000D+02	0.1143341D+03	1.8677	0.3782	0.3783	0.3391	0.3430
									0.0000		0.0000
									1.1536		1.0426
41	SAT	EL	1	0.5225667D+03	0.4346667D+01	0.1834732D+03	2.8482	0.1929	0.1929	0.1712	0.1732
									0.0000		0.0000
									0.5882		0.5265
42	SHD	EL	1	0.2521625D+03	0.5226667D+01	0.1351999D+03	1.8651	0.1119	0.1119	0.0969	0.0980
									0.0000		0.0000
									0.3413		0.2980
43	constant	NL	0	0.1525416D+09	0.1000000D+01	0.4844400D+08	3.1488	12952.5545	12953.7879	11534.6989	11666.4114
									0.9154		1.0164
									39504.8713		35466.0611

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.8488113D+04	0.8488108D+04	0.5402601D-01	-0.1682596D-02
2 LVCEI	0.1069712D+04	0.1069711D+04	0.6808611D-02	-0.2120486D-03
3 P08PC	0.3902447D+03	0.3902444D+03	0.2483869D-02	-0.7735807D-04
4 PTDEM	-0.2313275D+04	-0.2313274D+04	-0.1472377D-01	0.4585598D-03
5 NCRROUT04	-0.1891631D+04	-0.1891630D+04	-0.1204005D-01	0.3749775D-03
6 GRPOL	-0.8812288D+03	-0.8812283D+03	-0.5608935D-02	0.1746857D-03
7 STR813	0.5374465D+02	0.5374462D+02	0.3420795D-03	-0.1065378D-04
8 STRP	0.3555348D+02	0.3555346D+02	0.2262945D-03	-0.7047755D-05
9 STRCUQ	-0.1442837D+02	-0.1442837D+02	-0.9183520D-04	0.2860132D-05

10	GRVOY	0.1620624D+02	0.1620623D+02	0.1031511D-03	-0.3212557D-05
11	AUTPKRP	-0.1230333D+05	-0.1230333D+05	-0.7830953D-01	0.2438886D-02
12	GRMUMH	-0.6296728D+02	-0.6296724D+02	-0.4007806D-03	0.1248198D-04
13	TLK822	0.8442822D+01	0.8442817D+01	0.5373774D-04	-0.1673618D-05
14	RFK822	0.5004573D+03	0.5004570D+03	0.3185362D-02	-0.9920548D-04
15	SFK822	0.1759436D+03	0.1759435D+03	0.1119864D-02	-0.3487724D-04
16	CSFMR822	-0.4157608D+01	-0.4157606D+01	-0.2646277D-04	0.8241613D-06
17	LOIIND61	0.1629851D+04	0.1629850D+04	0.1037385D-01	-0.3230849D-03
18	LOIAS	0.8483985D+03	0.8483980D+03	0.5399974D-02	-0.1681777D-03
19	MOP62	0.8071357D+03	0.8071352D+03	0.5137340D-02	-0.1599982D-03
20	PRMVACRI	0.7149590D+07	0.7149585D+07	0.4550644D+02	-0.1417261D+01
21	DUM78RAU	0.1675097D+04	0.1675096D+04	0.1066183D-01	-0.3320540D-03
22	SED78RAU	-0.1771513D+04	-0.1771512D+04	-0.1127551D-01	0.3511664D-03
23	CONSTA	-0.1586955D+03	-0.1586954D+03	-0.1010082D-02	0.3145816D-04
24	KMPARR1	0.3633551D-05	0.3633549D-05	0.2312720D-10	-0.7202776D-12
25	DICR1	-0.1054489D-06	-0.1054488D-06	-0.6711717D-12	0.2090309D-13
26	PGRPKM	-0.1735993D+06	-0.1735992D+06	-0.1104942D+01	0.3441252D-01
27	PDRQ	-0.6307560D+05	-0.6307556D+05	-0.4014700D+00	0.1250345D-01
28	ENTRNMD	-0.1226690D+03	-0.1226689D+03	-0.7807761D-03	0.2431663D-04
29	PPAS	0.7113346D+05	0.7113342D+05	0.4527575D+00	-0.1410076D-01
30	SURPOL	0.5034185D+03	0.5034182D+03	0.3204209D-02	-0.9979247D-04
31	PERPA	-0.2436147D+04	-0.2436145D+04	-0.1550584D-01	0.4829165D-03
32	PRCHOM	-0.5326556D+05	-0.5326552D+05	-0.3390301D+00	0.1055881D-01
33	PRFEVM	0.1188453D+06	0.1188452D+06	0.7564385D+00	-0.2355866D-01
34	HEUHM	-0.2852535D-01	-0.2852534D-01	-0.1815611D-06	0.5654571D-08
35	PRMED	0.9565823D+03	0.9565818D+03	0.6088553D-02	-0.1896230D-03
36	PRALT	0.4919383D+04	0.4919380D+04	0.3131139D-01	-0.9751676D-03
37	PRMTRARI	0.1526628D+09	0.1526627D+09	0.9716841D+03	-0.3026230D+02
38	PRMMAGRI	-0.1592974D+05	-0.1592973D+05	-0.1013913D+00	0.3157748D-02
39	DMSR	-0.7555712D+02	-0.7555708D+02	-0.4809137D-03	0.1497766D-04
40	WD	0.2135439D+03	0.2135438D+03	0.1359186D-02	-0.4233074D-04
41	SAT	0.5225667D+03	0.5225664D+03	0.3326086D-02	-0.1035882D-03
42	SHD	0.2521625D+03	0.2521623D+03	0.1604990D-02	-0.4998608D-04
43	constant	0.1525416D+09	0.1525415D+09	0.9709123D+03	-0.3023827D+02

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1571D+06	-0.5045D+07
SIGMA(y)	0.6365D-05	0.1000D+01	-0.3211D+02
GAMMA(y)	-0.1982D-06	-0.3114D-01	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1415D+05	0.3279D+00
SIGMA(y)	0.7066D-04	0.1000D+01	0.2317D-04
GAMMA(y)	0.3050D+01	0.4316D+05	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCR0UT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
X(1)										

=====										
DISCEIN	0.1000D+01	0.1260D+00	0.4598D-01	-0.2725D+00	-0.2229D+00	-0.1038D+00	0.6332D-02	0.4189D-02	-0.1700D-02	0.1909D-02
LVCEI	0.7935D+01	0.1000D+01	0.3648D+00	-0.2163D+01	-0.1768D+01	-0.8238D+00	0.5024D-01	0.3324D-01	-0.1349D-01	0.1515D-01
P08PC	0.2175D+02	0.2741D+01	0.1000D+01	-0.5928D+01	-0.4847D+01	-0.2258D+01	0.1377D+00	0.9111D-01	-0.3697D-01	0.4153D-01
PTDEM	-0.3669D+01	-0.4624D+00	-0.1687D+00	0.1000D+01	0.8177D+00	0.3809D+00	-0.2323D-01	-0.1537D-01	0.6237D-02	-0.7006D-02
NCROUT04	-0.4487D+01	-0.5655D+00	-0.2063D+00	0.1223D+01	0.1000D+01	0.4659D+00	-0.2841D-01	-0.1880D-01	0.7627D-02	-0.8567D-02
GRPOL	-0.9632D+01	-0.1214D+01	-0.4428D+00	0.2625D+01	0.2147D+01	0.1000D+01	-0.6099D-01	-0.4035D-01	0.1637D-01	-0.1839D-01
STR813	0.1579D+03	0.1990D+02	0.7261D+01	-0.4304D+02	-0.3520D+02	-0.1640D+02	0.1000D+01	0.6615D+00	-0.2685D+00	0.3015D+00
STRP	0.2387D+03	0.3009D+02	0.1098D+02	-0.6506D+02	-0.5321D+02	-0.2479D+02	0.1512D+01	0.1000D+01	-0.4058D+00	0.4558D+00
STRCUQ	-0.5883D+03	-0.7414D+02	-0.2705D+02	0.1603D+03	0.1311D+03	0.6108D+02	-0.3725D+01	-0.2464D+01	0.1000D+01	-0.1123D+01
GRVOY	0.5238D+03	0.6601D+02	0.2408D+02	-0.1427D+03	-0.1167D+03	-0.5438D+02	0.3316D+01	0.2194D+01	-0.8903D+00	0.1000D+01
AUTPKRP	-0.6899D+00	-0.8694D-01	-0.3172D-01	0.1880D+00	0.1537D+00	0.7163D-01	-0.4368D-02	-0.2890D-02	0.1173D-02	-0.1317D-02
GRMUMH	-0.1348D+03	-0.1699D+02	-0.6198D+01	0.3674D+02	0.3004D+02	0.1400D+02	-0.8535D+00	-0.5646D+00	0.2291D+00	-0.2574D+00
TLK822	0.1005D+04	0.1267D+03	0.4622D+02	-0.2740D+03	-0.2241D+03	-0.1044D+03	0.6366D+01	0.4211D+01	-0.1709D+01	0.1920D+01
RFK822	0.1696D+02	0.2137D+01	0.7798D+00	-0.4622D+01	-0.3780D+01	-0.1761D+01	0.1074D+00	0.7104D-01	-0.2883D-01	0.3238D-01
SFK822	0.4824D+02	0.6080D+01	0.2218D+01	-0.1315D+02	-0.1075D+02	-0.5009D+01	0.3055D+00	0.2021D+00	-0.8201D-01	0.9211D-01
CSFMR822	-0.2042D+04	-0.2573D+03	-0.9386D+02	0.5564D+03	0.4550D+03	0.2120D+03	-0.1293D+02	-0.8551D+01	0.3470D+01	-0.3898D+01
LOIIND61	0.5208D+01	0.6563D+00	0.2394D+00	-0.1419D+01	-0.1161D+01	-0.5407D+00	0.3298D-01	0.2181D-01	-0.8853D-02	0.9943D-02
LOIAS	0.1000D+02	0.1261D+01	0.4600D+00	-0.2727D+01	-0.2230D+01	-0.1039D+01	0.6335D-01	0.4191D-01	-0.1701D-01	0.1910D-01
MOP62	0.1052D+02	0.1325D+01	0.4835D+00	-0.2866D+01	-0.2344D+01	-0.1092D+01	0.6659D-01	0.4405D-01	-0.1788D-01	0.2008D-01
PRMVACR1	0.1187D-02	0.1496D-03	0.5458D-04	-0.3236D-03	-0.2646D-03	-0.1233D-03	0.7517D-05	0.4973D-05	-0.2018D-05	0.2267D-05
DUM78RAU	0.5067D+01	0.6386D+00	0.2330D+00	-0.1381D+01	-0.1129D+01	-0.5261D+00	0.3208D-01	0.2122D-01	-0.8613D-02	0.9675D-02
SED78RAU	-0.4791D+01	-0.6038D+00	-0.2203D+00	0.1306D+01	0.1068D+01	0.4974D+00	-0.3034D-01	-0.2007D-01	0.8145D-02	-0.9148D-02
CONSTA	-0.5349D+02	-0.6741D+01	-0.2459D+01	0.1458D+02	0.1192D+02	0.5553D+01	-0.3387D+00	-0.2240D+00	0.9092D-01	-0.1021D+00
KMPARR1	0.2336D+10	0.2944D+09	0.1074D+09	-0.6366D+09	-0.5206D+09	-0.2425D+09	0.1479D+08	0.9785D+07	-0.3971D+07	0.4460D+07
DICR1	-0.8050D+11	-0.1014D+11	-0.3701D+10	0.2194D+11	0.1794D+11	0.8357D+10	-0.5097D+09	-0.3372D+09	0.1368D+09	-0.1537D+09
PGRPKM	-0.4889D-01	-0.6162D-02	-0.2248D-02	0.1333D-01	0.1090D-01	0.5076D-02	-0.3096D-03	-0.2048D-03	0.8311D-04	-0.9335D-04
PDRQ	-0.1346D+00	-0.1696D-01	-0.6187D-02	0.3667D-01	0.2999D-01	0.1397D-01	-0.8521D-03	-0.5637D-03	0.2287D-03	-0.2569D-03
ENTRNMDC	-0.6920D+02	-0.8720D+01	-0.3181D+01	0.1886D+02	0.1542D+02	0.7184D+01	-0.4381D+00	-0.2898D+00	0.1176D+00	-0.1321D+00
PPAS	0.1193D+00	0.1504D-01	0.5486D-02	-0.3252D-01	-0.2659D-01	-0.1239D-01	0.7555D-03	0.4998D-03	-0.2028D-03	0.2278D-03
SURPOL	0.1686D+02	0.2125D+01	0.7752D+00	-0.4595D+01	-0.3758D+01	-0.1750D+01	0.1068D+00	0.7062D-01	-0.2866D-01	0.3219D-01
PERPA	-0.3484D+01	-0.4391D+00	-0.1602D+00	0.9496D+00	0.7765D+00	0.3617D+00	-0.2206D-01	-0.1459D-01	0.5923D-02	-0.6652D-02
PRCHOM	-0.1594D+00	-0.2008D-01	-0.7326D-02	0.4343D-01	0.3551D-01	0.1654D-01	-0.1009D-02	-0.6675D-03	0.2709D-03	-0.3043D-03
PRFEVM	0.7142D-01	0.9001D-02	0.3284D-02	-0.1946D-01	-0.1592D-01	-0.7415D-02	0.4522D-03	0.2992D-03	-0.1214D-03	0.1364D-03
HEUHM	-0.2976D+06	-0.3750D+05	-0.1368D+05	0.8110D+05	0.6631D+05	0.3089D+05	-0.1884D+04	-0.1246D+04	0.5058D+03	-0.5681D+03
PRMED	0.8873D+01	0.1118D+01	0.4080D+00	-0.2418D+01	-0.1977D+01	-0.9212D+00	0.5618D-01	0.3717D-01	-0.1508D-01	0.1694D-01
PRALT	0.1725D+01	0.2174D+00	0.7933D-01	-0.4702D+00	-0.3845D+00	-0.1791D+00	0.1093D-01	0.7227D-02	-0.2933D-02	0.3294D-02
PRMTRAR1	0.5560D-04	0.7007D-05	0.2556D-05	-0.1515D-04	-0.1239D-04	-0.5772D-05	0.3520D-06	0.2329D-06	-0.9451D-07	0.1062D-06
PRMMAGR1	-0.5328D+00	-0.6715D-01	-0.2450D-01	0.1452D+00	0.1187D+00	0.5532D-01	-0.3374D-02	-0.2232D-02	0.9058D-03	-0.1017D-02
DMSR	-0.1123D+03	-0.1416D+02	-0.5165D+01	0.3062D+02	0.2504D+02	0.1166D+02	-0.7113D+00	-0.4706D+00	0.1910D+00	-0.2145D+00
WD	0.3975D+02	0.5009D+01	0.1827D+01	-0.1083D+02	-0.8858D+01	-0.4127D+01	0.2517D+00	0.1665D+00	-0.6757D-01	0.7589D-01
SAT	0.1624D+02	0.2047D+01	0.7468D+00	-0.4427D+01	-0.3620D+01	-0.1686D+01	0.1028D+00	0.6804D-01	-0.2761D-01	0.3101D-01
SHD	0.3366D+02	0.4242D+01	0.1548D+01	-0.9174D+01	-0.7502D+01	-0.3495D+01	0.2131D+00	0.1410D+00	-0.5722D-01	0.6427D-01
constant	0.5564D-04	0.7013D-05	0.2558D-05	-0.1516D-04	-0.1240D-04	-0.5777D-05	0.3523D-06	0.2331D-06	-0.9459D-07	0.1062D-06
=====										
X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
=====										
X(l)										
=====										
DISCEIN	-0.1449D+01	-0.7418D-02	0.9947D-03	0.5896D-01	0.2073D-01	-0.4898D-03	0.1920D+00	0.9995D-01	0.9509D-01	0.8423D+03
LVCEI	-0.1150D+02	-0.5886D-01	0.7893D-02	0.4678D+00	0.1645D+00	-0.3887D-02	0.1524D+01	0.7931D+00	0.7545D+00	0.6684D+04
P08PC	-0.3153D+02	-0.1614D+00	0.2163D-01	0.1282D+01	0.4509D+00	-0.1065D-01	0.4176D+01	0.2174D+01	0.2068D+01	0.1832D+05
PTDEM	0.5319D+01	0.2722D-01	-0.3650D-02	-0.2163D+00	-0.7606D-01	0.1797D-02	-0.7046D+00	-0.3668D+00	-0.3489D+00	-0.3091D+04

NCROUT04	0.6504D+01	0.3329D-01	-0.4463D-02	-0.2646D+00	-0.9301D-01	0.2198D-02	-0.8616D+00	-0.4485D+00	-0.4267D+00	-0.3780D+04
GRPOL	0.1396D+02	0.7145D-01	-0.9581D-02	-0.5679D+00	-0.1997D+00	0.4718D-02	-0.1850D+01	-0.9627D+00	-0.9159D+00	-0.8113D+04
STR813	-0.2289D+03	-0.1172D+01	0.1571D+00	0.9312D+01	0.3274D+01	-0.7736D-01	0.3033D+02	0.1579D+02	0.1502D+02	0.1330D+06
STRP	-0.3461D+03	-0.1771D+01	0.2375D+00	0.1408D+02	0.4949D+01	-0.1169D+00	0.4584D+02	0.2386D+02	0.2270D+02	0.2011D+06
STRCUQ	0.8527D+03	0.4364D+01	-0.5852D+00	-0.3469D+02	-0.1219D+02	0.2882D+00	-0.1130D+03	-0.5880D+02	-0.5594D+02	-0.4955D+06
GRVOY	-0.7592D+03	-0.3885D+01	0.5210D+00	0.3088D+02	0.1086D+02	-0.2565D+00	0.1006D+03	0.5235D+02	0.4980D+02	0.4412D+06
AUTPKRP	0.1000D+01	0.5118D-02	-0.6862D-03	-0.4068D-01	-0.1430D-01	0.3379D-03	-0.1325D+00	-0.6896D-01	-0.6560D-01	-0.5811D+03
GRMUMH	0.1954D+03	0.1000D+01	-0.1341D+00	-0.7948D+01	-0.2794D+01	0.6603D-01	-0.2588D+02	-0.1347D+02	-0.1282D+02	-0.1135D+06
TLK822	-0.1457D+04	-0.7458D+01	0.1000D+01	0.5928D+02	0.2084D+02	-0.4924D+00	0.1930D+03	0.1005D+03	0.9560D+02	0.8468D+06
RFK822	-0.2458D+02	-0.1258D+00	0.1687D-01	0.1000D+01	0.3516D+00	-0.8308D-02	0.3257D+01	0.1695D+01	0.1613D+01	0.1429D+05
SFK822	-0.6993D+02	-0.3579D+00	0.4799D-01	0.2844D+01	0.1000D+01	-0.2363D-01	0.9263D+01	0.4822D+01	0.4587D+01	0.4064D+05
CSFMR822	0.2959D+04	0.1515D+02	-0.2031D+01	-0.1204D+03	-0.4232D+02	0.1000D+01	-0.3920D+03	-0.2041D+03	-0.1941D+03	-0.1720D+07
LOIIND61	-0.7549D+01	-0.3863D-01	0.5180D-02	0.3071D+00	0.1080D+00	-0.2551D-02	0.1000D+01	0.5205D+00	0.4952D+00	0.4387D+04
LOIAS	-0.1450D+02	-0.7422D-01	0.9951D-02	0.5899D+00	0.2074D+00	-0.4901D-02	0.1921D+01	0.1000D+01	0.9514D+00	0.8427D+04
MOP62	-0.1524D+02	-0.7801D-01	0.1046D-01	0.6200D+00	0.2180D+00	-0.5151D-02	0.2019D+01	0.1051D+01	0.1000D+01	0.8858D+04
PRMVACR1	-0.1721D-02	-0.8807D-05	0.1181D-05	0.7000D-04	0.2461D-04	-0.5815D-06	0.2280D-03	0.1187D-03	0.1129D-03	0.1000D+01
DUM78RAU	-0.7345D+01	-0.3759D-01	0.5040D-02	0.2988D+00	0.1050D+00	-0.2482D-02	0.9730D+00	0.5065D+00	0.4818D+00	0.4268D+04
SED78RAU	0.6945D+01	0.3554D-01	-0.4766D-02	-0.2825D+00	-0.9932D-01	0.2347D-02	-0.9200D+00	-0.4789D+00	-0.4556D+00	-0.4036D+04
CONSTA	0.7753D+02	0.3968D+00	-0.5320D-01	-0.3154D+01	-0.1109D+01	0.2620D-01	-0.1027D+02	-0.5346D+01	-0.5086D+01	-0.4505D+05
KMPARR1	-0.3386D+10	-0.1733D+08	0.2324D+07	0.1377D+09	0.4842D+08	-0.1144D+07	0.4486D+09	0.2335D+09	0.2221D+09	0.1968D+13
DICR1	0.1167D+12	0.5971D+09	-0.8007D+08	-0.4746D+10	-0.1669D+10	0.3943D+08	-0.1546D+11	-0.8046D+10	-0.7654D+10	-0.6780D+14
PGRPKM	0.7087D-01	0.3627D-03	-0.4863D-04	-0.2883D-02	-0.1014D-02	0.2395D-04	-0.9389D-02	-0.4887D-02	-0.4649D-02	-0.4118D+02
PDRQ	0.1951D+00	0.9983D-03	-0.1339D-03	-0.7934D-02	-0.2789D-02	0.6591D-04	-0.2584D-01	-0.1345D-01	-0.1280D-01	-0.1133D+03
ENTRNMDC	0.1003D+03	0.5133D+00	-0.6883D-01	-0.4080D+01	-0.1434D+01	0.3389D-01	-0.1329D+02	-0.6916D+01	-0.6580D+01	-0.5828D+05
PPAS	-0.1730D+00	-0.8852D-03	0.1187D-03	0.7035D-02	0.2473D-02	-0.5845D-04	0.2291D-01	0.1193D-01	0.1135D-01	0.1005D+03
SURPOL	-0.2444D+02	-0.1251D+00	0.1677D-01	0.9941D+00	0.3495D+00	-0.8259D-02	0.3238D+01	0.1685D+01	0.1603D+01	0.1420D+05
PERPA	0.5050D+01	0.2585D-01	-0.3466D-02	-0.2054D+00	-0.7222D-01	0.1707D-02	-0.6690D+00	-0.3483D+00	-0.3313D+00	-0.2935D+04
PRCHOM	0.2310D+00	0.1182D-02	-0.1585D-03	-0.9396D-02	-0.3303D-02	0.7805D-04	-0.3060D-01	-0.1593D-01	-0.1515D-01	-0.1342D+03
PRFEVM	-0.1035D+00	-0.5298D-03	0.7104D-04	0.4211D-02	0.1480D-02	-0.3498D-04	0.1371D-01	0.7139D-02	0.6791D-02	0.6016D+02
HEUHM	0.4313D+06	0.2207D+04	-0.2960D+03	-0.1754D+05	-0.6168D+04	0.1458D+03	-0.5714D+05	-0.2974D+05	-0.2830D+05	-0.2506D+09
PRMED	-0.1286D+02	-0.6583D-01	0.8826D-02	0.5232D+00	0.1839D+00	-0.4346D-02	0.1704D+01	0.8869D+00	0.8438D+00	0.7474D+04
PRALT	-0.2501D+01	-0.1280D-01	0.1716D-02	0.1017D+00	0.3577D-01	-0.8451D-03	0.3313D+00	0.1725D+00	0.1641D+00	0.1453D+04
PRMTRAR1	-0.8059D-04	-0.4125D-06	0.5530D-07	0.3278D-05	0.1152D-05	-0.2723D-07	0.1068D-04	0.5557D-05	0.5287D-05	0.4683D-01
PRMMAGR1	0.7723D+00	0.3953D-02	-0.5300D-03	-0.3142D-01	-0.1104D-01	0.2610D-03	-0.1023D+00	-0.5326D-01	-0.5067D-01	-0.4488D+03
DMSR	0.1628D+03	0.8334D+00	-0.1117D+00	-0.6624D+01	-0.2329D+01	0.5503D-01	-0.2157D+02	-0.1123D+02	-0.1068D+02	-0.9462D+05
WD	-0.5762D+02	-0.2949D+00	0.3954D-01	0.2344D+01	0.8239D+00	-0.1947D-01	0.7632D+01	0.3973D+01	0.3780D+01	0.3348D+05
SAT	-0.2354D+02	-0.1205D+00	0.1616D-01	0.9577D+00	0.3367D+00	-0.7956D-02	0.3119D+01	0.1624D+01	0.1545D+01	0.1368D+05
SHD	-0.4879D+02	-0.2497D+00	0.3348D-01	0.1985D+01	0.6977D+00	-0.1649D-01	0.6463D+01	0.3364D+01	0.3201D+01	0.2835D+05
constant	-0.8066D-04	-0.4128D-06	0.5535D-07	0.3281D-05	0.1153D-05	-0.2726D-07	0.1068D-04	0.5562D-05	0.5291D-05	0.4687D-01
=====										
X(k)	DUM78RAU	SED78RAU	CONSTA	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL
=====										
X(1)										
=====										
DISCEIN	0.1973D+00	-0.2087D+00	-0.1870D-01	0.4281D-09	-0.1242D-10	-0.2045D+02	-0.7431D+01	-0.1445D-01	0.8380D+01	0.5931D-01
LVCEI	0.1566D+01	-0.1656D+01	-0.1484D+00	0.3397D-08	-0.9858D-10	-0.1623D+03	-0.5897D+02	-0.1147D+00	0.6650D+02	0.4706D+00
P08PC	0.4292D+01	-0.4539D+01	-0.4067D+00	0.9311D-08	-0.2702D-09	-0.4448D+03	-0.1616D+03	-0.3143D+00	0.1823D+03	0.1290D+01
PTDEM	-0.7241D+00	0.7658D+00	0.6860D-01	-0.1571D-08	0.4558D-10	0.7504D+02	0.2727D+02	0.5303D-01	-0.3075D+02	-0.2176D+00
NCROUT04	-0.8855D+00	0.9365D+00	0.8389D-01	-0.1921D-08	0.5574D-10	0.9177D+02	0.3334D+02	0.6485D-01	-0.3760D+02	-0.2661D+00
GRPOL	-0.1901D+01	0.2010D+01	0.1801D+00	-0.4123D-08	0.1197D-09	0.1970D+03	0.7158D+02	0.1392D+00	-0.8072D+02	-0.5713D+00
STR813	0.3117D+02	-0.3296D+02	-0.2953D+01	0.6761D-07	-0.1962D-08	-0.3230D+04	-0.1174D+04	-0.2282D+01	0.1324D+04	0.9367D+01
STRP	0.4711D+02	-0.4983D+02	-0.4464D+01	0.1022D-06	-0.2966D-08	-0.4883D+04	-0.1774D+04	-0.3450D+01	0.2001D+04	0.1416D+02
STRCUQ	-0.1161D+03	0.1228D+03	0.1100D+02	-0.2518D-06	0.7308D-08	0.1203D+05	0.4372D+04	0.8502D+01	-0.4930D+04	-0.3489D+02

GRVOY	0.1034D+03	-0.1093D+03	-0.9792D+01	0.2242D-06	-0.6507D-08	-0.1071D+05	-0.3892D+04	-0.7569D+01	0.4389D+04	0.3106D+02	
AUTPKRP	-0.1361D+00	0.1440D+00	0.1290D-01	-0.2953D-09	0.8571D-11	0.1411D+02	0.5127D+01	0.9970D-02	-0.5782D+01	-0.4092D-01	
GRMUMH	-0.2660D+02	0.2813D+02	0.2520D+01	-0.5771D-07	0.1675D-08	0.2757D+04	0.1002D+04	0.1948D+01	-0.1130D+04	-0.7995D+01	
TLK822	0.1984D+03	-0.2098D+03	-0.1880D+02	0.4304D-06	-0.1249D-07	-0.2056D+05	-0.7471D+04	-0.1453D+02	0.8425D+04	0.5963D+02	
RFK822	0.3347D+01	-0.3540D+01	-0.3171D+00	0.7260D-08	-0.2107D-09	-0.3469D+03	-0.1260D+03	-0.2451D+00	0.1421D+03	0.1006D+01	
SFK822	0.9521D+01	-0.1007D+02	-0.9020D+00	0.2065D-07	-0.5993D-09	-0.9867D+03	-0.3585D+03	-0.6972D+00	0.4043D+03	0.2861D+01	
CSFMR822	-0.4029D+03	0.4261D+03	0.3817D+02	-0.8740D-06	0.2536D-07	0.4175D+05	0.1517D+05	0.2950D+02	-0.1711D+05	-0.1211D+03	
LOIIND61	0.1028D+01	-0.1087D+01	-0.9737D-01	0.2229D-08	-0.6470D-10	-0.1065D+03	-0.3870D+02	-0.7526D-01	0.4364D+02	0.3089D+00	
LOIAS	0.1974D+01	-0.2088D+01	-0.1871D+00	0.4283D-08	-0.1243D-09	-0.2046D+03	-0.7435D+02	-0.1446D+00	0.8384D+02	0.5934D+00	
MOP62	0.2075D+01	-0.2195D+01	-0.1966D+00	0.4502D-08	-0.1306D-09	-0.2151D+03	-0.7815D+02	-0.1520D+00	0.8813D+02	0.6237D+00	
PRMVACR1	0.2343D-03	-0.2478D-03	-0.2220D-04	0.5082D-12	-0.1475D-13	-0.2428D-01	-0.8822D-02	-0.1716D-04	0.9949D-02	0.7041D-04	
DUM78RAU	0.1000D+01	-0.1058D+01	-0.9474D-01	0.2169D-08	-0.6295D-10	-0.1036D+03	-0.3765D+02	-0.7323D-01	0.4247D+02	0.3005D+00	
SED78RAU	-0.9456D+00	0.1000D+01	0.8958D-01	-0.2051D-08	0.5952D-10	0.9799D+02	0.3561D+02	0.6925D-01	-0.4015D+02	-0.2842D+00	
CONSTA	-0.1056D+02	0.1116D+02	0.1000D+01	-0.2290D-07	0.6645D-09	0.1094D+04	0.3975D+03	0.7730D+00	-0.4482D+03	-0.3172D+01	
KMPARR1	0.4610D+09	-0.4875D+09	-0.4368D+08	0.1000D+01	-0.2902D-01	-0.4778D+11	-0.1736D+11	-0.3376D+08	0.1958D+11	0.1385D+09	
DICR1	-0.1589D+11	0.1680D+11	0.1505D+10	-0.3446D+02	0.1000D+01	0.1646D+13	0.5982D+12	0.1163D+10	-0.6746D+12	-0.4774D+10	
PGRPKM	-0.9649D-02	0.1020D-01	0.9141D-03	-0.2093D-10	0.6074D-12	0.1000D+01	0.3633D+00	0.7066D-03	-0.4098D+00	-0.2900D-02	
PDRQ	-0.2656D-01	0.2809D-01	0.2516D-02	-0.5761D-10	0.1672D-11	0.2752D+01	0.1000D+01	0.1945D-02	-0.1128D+01	-0.7981D-02	
ENTRNMDC	-0.1366D+02	0.1444D+02	0.1294D+01	-0.2962D-07	0.8596D-09	0.1415D+04	0.5142D+03	0.1000D+01	-0.5799D+03	-0.4104D+01	
PPAS	0.2355D-01	-0.2490D-01	-0.2231D-02	0.5108D-10	-0.1482D-11	-0.2440D+01	-0.8867D+00	-0.1724D-02	0.1000D+01	0.7077D-02	
SURPOL	0.3327D+01	-0.3519D+01	-0.3152D+00	0.7218D-08	-0.2095D-09	-0.3448D+03	-0.1253D+03	-0.2437D+00	0.1413D+03	0.1000D+01	
PERPA	-0.6876D+00	0.7272D+00	0.6514D-01	-0.1492D-08	0.4329D-10	0.7126D+02	0.2589D+02	0.5035D-01	-0.2920D+02	-0.2066D+00	
PRCHOM	-0.3145D-01	0.3326D-01	0.2979D-02	-0.6822D-10	0.1980D-11	0.3259D+01	0.1184D+01	0.2303D-02	-0.1335D+01	-0.9451D-02	
PRFEVM	0.1409D-01	-0.1491D-01	-0.1335D-02	0.3057D-10	-0.8873D-12	-0.1461D+01	-0.5307D+00	-0.1032D-02	0.5985D+00	0.4236D-02	
HEUHM	-0.5872D+05	0.6210D+05	0.5563D+04	-0.1274D-03	0.3697D-05	0.6086D+07	0.2211D+07	0.4300D+04	-0.2494D+07	-0.1765D+05	
PRMED	0.1751D+01	-0.1852D+01	-0.1659D+00	0.3798D-08	-0.1102D-09	-0.1815D+03	-0.6594D+02	-0.1282D+00	0.7436D+02	0.5263D+00	
PRALT	0.3405D+00	-0.3601D+00	-0.3226D-01	0.7386D-09	-0.2144D-10	-0.3529D+02	-0.1282D+02	-0.2494D-01	0.1446D+02	0.1023D+00	
PRMTRAR1	0.1097D-04	-0.1160D-04	-0.1040D-05	0.2380D-13	-0.6907D-15	-0.1137D-02	-0.4132D-03	-0.8035D-06	0.4660D-03	0.3298D-05	
PRMMAGR1	-0.1052D+00	0.1112D+00	0.9962D-02	-0.2281D-09	0.6620D-11	0.1090D+02	0.3960D+01	0.7701D-02	-0.4465D+01	-0.3160D-01	
DMSR	-0.2217D+02	0.2345D+02	0.2100D+01	-0.4809D-07	0.1396D-08	0.2298D+04	0.8348D+03	0.1624D+01	-0.9415D+03	-0.6663D+01	
WD	0.7844D+01	-0.8296D+01	-0.7432D+00	0.1702D-07	-0.4938D-09	-0.8129D+03	-0.2954D+03	-0.5744D+00	0.3331D+03	0.2357D+01	
SAT	0.3206D+01	-0.3390D+01	-0.3037D+00	0.6953D-08	-0.2018D-09	-0.3322D+03	-0.1207D+03	-0.2347D+00	0.1361D+03	0.9634D+00	
SHD	0.6643D+01	-0.7025D+01	-0.6293D+00	0.1441D-07	-0.4182D-09	-0.6884D+03	-0.2501D+03	-0.4865D+00	0.2821D+03	0.1996D+01	
constant	0.1098D-04	-0.1161D-04	-0.1040D-05	0.2382D-13	-0.6913D-15	-0.1138D-02	-0.4135D-03	-0.8042D-06	0.4663D-03	0.3300D-05	
=====											
X(1)	X(k)	PERPA	PRCHOM	PRFEVM	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	DMSR	WD
=====											
DISCEIN	-0.2870D+00	-0.6275D+01	0.1400D+02	-0.3361D-05	0.1127D+00	0.5796D+00	0.1799D+05	-0.1877D+01	-0.8902D-02	0.2516D-01	
LVCEI	-0.2277D+01	-0.4979D+02	0.1111D+03	-0.2667D-04	0.8942D+00	0.4599D+01	0.1427D+06	-0.1489D+02	-0.7063D-01	0.1996D+00	
P08PC	-0.6243D+01	-0.1365D+03	0.3045D+03	-0.7310D-04	0.2451D+01	0.1261D+02	0.3912D+06	-0.4082D+02	-0.1936D+00	0.5472D+00	
PTDEM	0.1053D+01	0.2303D+02	-0.5138D+02	0.1233D-04	-0.4135D+00	-0.2127D+01	-0.6599D+05	0.6886D+01	0.3266D-01	-0.9231D-01	
NCROUT04	0.1288D+01	0.2816D+02	-0.6283D+02	0.1508D-04	-0.5057D+00	-0.2601D+01	-0.8070D+05	0.8421D+01	0.3994D-01	-0.1129D+00	
GRPOL	0.2764D+01	0.6044D+02	-0.1349D+03	0.3237D-04	-0.1086D+01	-0.5582D+01	-0.1732D+06	0.1808D+02	0.8574D-01	-0.2423D+00	
STR813	-0.4533D+02	-0.9911D+03	0.2211D+04	-0.5308D-03	0.1780D+02	0.9153D+02	0.2841D+07	-0.2964D+03	-0.1406D+01	0.3973D+01	
STRP	-0.6852D+02	-0.1498D+04	0.3343D+04	-0.8023D-03	0.2691D+02	0.1384D+03	0.4294D+07	-0.4481D+03	-0.2125D+01	0.6006D+01	
STRCUQ	0.1688D+03	0.3692D+04	-0.8237D+04	0.1977D-02	-0.6630D+02	-0.3410D+03	-0.1058D+08	0.1104D+04	0.5237D+01	-0.1480D+02	
GRVOY	-0.1503D+03	-0.3287D+04	0.7333D+04	-0.1760D-02	0.5903D+02	0.3035D+03	0.9420D+07	-0.9829D+03	-0.4662D+01	0.1318D+02	
AUTPKRP	0.1980D+00	0.4329D+01	-0.9660D+01	0.2319D-05	-0.7775D-01	-0.3998D+00	-0.1241D+05	0.1295D+01	0.6141D-02	-0.1736D-01	
GRMUMH	0.3869D+02	0.8459D+03	-0.1887D+04	0.4530D-03	-0.1519D+02	-0.7813D+02	-0.2424D+07	0.2530D+03	0.1200D+01	-0.3391D+01	
TLK822	-0.2885D+03	-0.6309D+04	0.1408D+05	-0.3379D-02	0.1133D+03	0.5827D+03	0.1808D+08	-0.1887D+04	-0.8949D+01	0.2529D+02	
RFK822	-0.4868D+01	-0.1064D+03	0.2375D+03	-0.5700D-04	0.1911D+01	0.9830D+01	0.3050D+06	-0.3183D+02	-0.1510D+00	0.4267D+00	

SFK822	-0.1385D+02	-0.3027D+03	0.6755D+03	-0.1621D-03	0.5437D+01	0.2796D+02	0.8677D+06	-0.9054D+02	-0.4294D+00	0.1214D+01						
CSFMR822	0.5859D+03	0.1281D+05	-0.2859D+05	0.6861D-02	-0.2301D+03	-0.1183D+04	-0.3672D+08	0.3831D+04	0.1817D+02	-0.5136D+02						
LOIIND61	-0.1495D+01	-0.3268D+02	0.7292D+02	-0.1750D-04	0.5869D+00	0.3018D+01	0.9367D+05	-0.9774D+01	-0.4636D-01	0.1310D+00						
LOIAS	-0.2871D+01	-0.6278D+02	0.1401D+03	-0.3362D-04	0.1128D+01	0.5798D+01	0.1799D+06	-0.1878D+02	-0.8906D-01	0.2517D+00						
MOP62	-0.3018D+01	-0.6599D+02	0.1472D+03	-0.3534D-04	0.1185D+01	0.6095D+01	0.1891D+06	-0.1974D+02	-0.9361D-01	0.2646D+00						
PRMVACR1	-0.3407D-03	-0.7450D-02	0.1662D-01	-0.3990D-08	0.1338D-03	0.6881D-03	0.2135D+02	-0.2228D-02	-0.1057D-04	0.2987D-04						
DUM78RAU	-0.1454D+01	-0.3180D+02	0.7095D+02	-0.1703D-04	0.5711D+00	0.2937D+01	0.9114D+05	-0.9510D+01	-0.4511D-01	0.1275D+00						
SED78RAU	0.1375D+01	0.3007D+02	-0.6709D+02	0.1610D-04	-0.5400D+00	-0.2777D+01	-0.8618D+05	0.8992D+01	0.4265D-01	-0.1205D+00						
CONSTA	0.1535D+02	0.3356D+03	-0.7489D+03	0.1797D-03	-0.6028D+01	-0.3100D+02	-0.9620D+06	0.1004D+03	0.4761D+00	-0.1346D+01						
KMPARR1	-0.6705D+09	-0.1466D+11	0.3271D+11	-0.7851D+04	0.2633D+09	0.1354D+10	0.4201D+14	-0.4384D+10	-0.2079D+08	0.5877D+08						
DICR1	0.2310D+11	0.5051D+12	-0.1127D+13	0.2705D+06	-0.9072D+10	-0.4665D+11	-0.1448D+16	0.1511D+12	0.7165D+09	-0.2025D+10						
PGRPKM	0.1403D-01	0.3068D+00	-0.6846D+00	0.1643D-06	-0.5510D-02	-0.2834D-01	-0.8794D+03	0.9176D-01	0.4352D-03	-0.1230D-02						
PDRQ	0.3862D-01	0.8445D+00	-0.1884D+01	0.4522D-06	-0.1517D-01	-0.7799D-01	-0.2420D+04	0.2526D+00	0.1198D-02	-0.3386D-02						
ENTRNMDC	0.1986D+02	0.4342D+03	-0.9688D+03	0.2325D-03	-0.7798D+01	-0.4010D+02	-0.1245D+07	0.1299D+03	0.6159D+00	-0.1741D+01						
PPAS	-0.3425D-01	-0.7488D+00	0.1671D+01	-0.4010D-06	0.1345D-01	0.6916D-01	0.2146D+04	-0.2239D+00	-0.1062D-02	0.3002D-02						
SURPOL	-0.4839D+01	-0.1058D+03	0.2361D+03	-0.5666D-04	0.1900D+01	0.9772D+01	0.3033D+06	-0.3164D+02	-0.1501D+00	0.4242D+00						
PERPA	0.1000D+01	0.2186D+02	-0.4878D+02	0.1171D-04	-0.3927D+00	-0.2019D+01	-0.6267D+05	0.6539D+01	0.3102D-01	-0.8766D-01						
PRCHOM	0.4574D-01	0.1000D+01	-0.2231D+01	0.5355D-06	-0.1796D-01	-0.9236D-01	-0.2866D+04	0.2991D+00	0.1418D-02	-0.4009D-02						
PRFEVM	-0.2050D-01	-0.4482D+00	0.1000D+01	-0.2400D-06	0.8049D-02	0.4139D-01	0.1285D+04	-0.1340D+00	-0.6358D-03	0.1797D-02						
HEUHM	0.8540D+05	0.1867D+07	-0.4166D+07	0.1000D+01	-0.3353D+05	-0.1725D+06	-0.5352D+10	0.5584D+06	0.2649D+04	-0.7486D+04						
PRMED	-0.2547D+01	-0.5568D+02	0.1242D+03	-0.2982D-04	0.1000D+01	0.5143D+01	0.1596D+06	-0.1665D+02	-0.7899D-01	0.2232D+00						
PRALT	-0.4952D+00	-0.1083D+02	0.2416D+02	-0.5799D-05	0.1945D+00	0.1000D+01	0.3103D+05	-0.3238D+01	-0.1536D-01	0.4341D-01						
PRMTRAR1	-0.1596D-04	-0.3489D-03	0.7785D-03	-0.1869D-09	0.6266D-05	0.3222D-04	0.1000D+01	-0.1043D-03	-0.4949D-06	0.1399D-05						
PRMMAGR1	0.1529D+00	0.3344D+01	-0.7461D+01	0.1791D-05	-0.6005D-01	-0.3088D+00	-0.9584D+04	0.1000D+01	0.4743D-02	-0.1341D-01						
DMSR	0.3224D+02	0.7050D+03	-0.1573D+04	0.3775D-03	-0.1266D+02	-0.6511D+02	-0.2020D+07	0.2108D+03	0.1000D+01	-0.2826D+01						
WD	-0.1141D+02	-0.2494D+03	0.5565D+03	-0.1336D-03	0.4480D+01	0.2304D+02	0.7149D+06	-0.7460D+02	-0.3538D+00	0.1000D+01						
SAT	-0.4662D+01	-0.1019D+03	0.2274D+03	-0.5459D-04	0.1831D+01	0.9414D+01	0.2921D+06	-0.3048D+02	-0.1446D+00	0.4086D+00						
SHD	-0.9661D+01	-0.2112D+03	0.4713D+03	-0.1131D-03	0.3794D+01	0.1951D+02	0.6054D+06	-0.6317D+02	-0.2996D+00	0.8469D+00						
constant	-0.1597D-04	-0.3492D-03	0.7791D-03	-0.1870D-09	0.6271D-05	0.3225D-04	0.1001D+01	-0.1044D-03	-0.4953D-06	0.1400D-05						
=====																
	X (k)	SAT	SHD	constant												
=====																
X (l)																
=====																
DISCEIN	0.6156D-01	0.2971D-01	0.1797D+05													
LVCEI	0.4885D+00	0.2357D+00	0.1426D+06													
P08PC	0.1339D+01	0.6462D+00	0.3909D+06													
PTDEM	-0.2259D+00	-0.1090D+00	-0.6594D+05													
NCROUT04	-0.2763D+00	-0.1333D+00	-0.8064D+05													
GRPOL	-0.5930D+00	-0.2861D+00	-0.1731D+06													
STR813	0.9723D+01	0.4692D+01	0.2838D+07													
STRP	0.1470D+02	0.7092D+01	0.4290D+07													
STRCUQ	-0.3622D+02	-0.1748D+02	-0.1057D+08													
GRVOY	0.3224D+02	0.1556D+02	0.9413D+07													
AUTPKRP	-0.4247D-01	-0.2050D-01	-0.1240D+05													
GRMUMH	-0.8299D+01	-0.4005D+01	-0.2423D+07													
TLK822	0.6189D+02	0.2987D+02	0.1807D+08													
RFK822	0.1044D+01	0.5039D+00	0.3048D+06													
SFK822	0.2970D+01	0.1433D+01	0.8670D+06													
CSFMR822	-0.1257D+03	-0.6065D+02	-0.3669D+08													
LOIIND61	0.3206D+00	0.1547D+00	0.9359D+05													
LOIAS	0.6159D+00	0.2972D+00	0.1798D+06													
MOP62	0.6474D+00	0.3124D+00	0.1890D+06													

Log-likelihood : -0.2515673D+04

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0.40852D+00 0.37181D+00

new absolute minimum , parameters for fcn entry 12 follow - - f,x(i)
-0.3408679289D+03 0.29011D+00 -0.25478D+00 -0.11826D+00 0.28070D-01 -0.21549D+00 -0.12620D+00 -0.15722D+00 -0.78065D-01
0.37365D+00 0.26383D+00

new absolute minimum , parameters for fcn entry 15 follow - - f,x(i)
-0.3414034182D+03 0.27955D+00 -0.26416D+00 -0.13412D+00 0.43589D-01 -0.20064D+00 -0.11749D+00 -0.15448D+00 -0.10764D+00
0.34275D+00 0.23076D+00

new absolute minimum , parameters for fcn entry 17 follow - - f,x(i)
-0.3415065904D+03 0.27765D+00 -0.25976D+00 -0.14204D+00 0.36376D-01 -0.20778D+00 -0.12322D+00 -0.14181D+00 -0.11458D+00
0.33070D+00 0.22133D+00

new absolute minimum , parameters for fcn entry 20 follow - - f,x(i)
-0.3415519274D+03 0.27068D+00 -0.25554D+00 -0.13796D+00 0.37444D-01 -0.21947D+00 -0.13023D+00 -0.13941D+00 -0.13081D+00
0.32896D+00 0.22006D+00

new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)
-0.3415630415D+03 0.26650D+00 -0.25952D+00 -0.13805D+00 0.37501D-01 -0.22479D+00 -0.12871D+00 -0.13585D+00 -0.13471D+00
0.33001D+00 0.22096D+00

new absolute minimum , parameters for fcn entry 24 follow - - f,x(i)
-0.3415654492D+03 0.26938D+00 -0.26064D+00 -0.13391D+00 0.38319D-01 -0.22614D+00 -0.12644D+00 -0.13234D+00 -0.13629D+00
0.32912D+00 0.22080D+00

new absolute minimum , parameters for fcn entry 26 follow - - f,x(i)
-0.3415655851D+03 0.26906D+00 -0.25981D+00 -0.13383D+00 0.38668D-01 -0.22591D+00 -0.12592D+00 -0.13158D+00 -0.13631D+00
0.32982D+00 0.22050D+00

new absolute minimum , parameters for fcn entry 28 follow - - f,x(i)
-0.3415665596D+03 0.26988D+00 -0.25914D+00 -0.13515D+00 0.40546D-01 -0.22722D+00 -0.12600D+00 -0.13102D+00 -0.13615D+00
0.32944D+00 0.22225D+00

new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
-0.3415687892D+03 0.26884D+00 -0.26004D+00 -0.13391D+00 0.38512D-01 -0.22595D+00 -0.12780D+00 -0.12965D+00 -0.13682D+00
0.32937D+00 0.22463D+00

new absolute minimum , parameters for fcn entry 32 follow - - f,x(i)
-0.3415688176D+03 0.26875D+00 -0.26007D+00 -0.13379D+00 0.38616D-01 -0.22619D+00 -0.12792D+00 -0.12954D+00 -0.13676D+00
0.32927D+00 0.22439D+00

new absolute minimum , parameters for fcn entry 34 follow - - f,x(i)
-0.3415688182D+03 0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22619D+00 -0.12794D+00 -0.12953D+00 -0.13676D+00
0.32929D+00 0.22435D+00

new absolute minimum , parameters for fcn entry 35 follow - - f,x(i)
-0.3415688182D+03 0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22619D+00 -0.12793D+00 -0.12953D+00 -0.13677D+00
0.32929D+00 0.22435D+00

new absolute minimum , parameters for fcn entry 36 follow - - f,x(i)
-0.3415688182D+03 0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22620D+00 -0.12793D+00 -0.12953D+00 -0.13677D+00
0.32929D+00 0.22435D+00

new absolute minimum , parameters for fcn entry 37 follow - - f,x(i)
-0.3415688182D+03 0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22620D+00 -0.12793D+00 -0.12953D+00 -0.13677D+00
0.32929D+00 0.22435D+00

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.3415688182D+03 0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22620D+00 -0.12793D+00 -0.12953D+00 -0.13677D+00
0.32929D+00 0.22435D+00

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3415688182D+03 for entry 37 - - x(i) follows
0.26877D+00 -0.26008D+00 -0.13379D+00 0.38611D-01 -0.22620D+00 -0.12793D+00 -0.12953D+00 -0.13677D+00 0.32929D+00 0.22435D+00

run statistics follow - -

nfcn= 37 nst= 16

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

OBSERVED Y FITTED E(Y)
MEAN 0.1177695D+05 0.1177399D+05
STD.ERROR 0.3980815D+04 0.3856610D+04
SKEWNESS 0.2801931 0.1181379

E(y) at the means : 0.1160752D+05

Sig(y) at the means : 0.8061378D+03

C.o.V. at the means : 0.0694496

Gam(y) at the means : 0.1599136

Pearson-R2 : 0.9569788

Pearson-R2 bar : 0.9479217

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Pseudo-(1)-R2 : 0.9784620
Pseudo-(1)-R2 bar : 0.9739277
Error Variance : 0.3212715D+00
Log-likelihood : -0.2421533D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y)	y(sample)	E(y)
								SIGMA(y)		SIGMA(y)
							GAMMA(y)			GAMMA(y)
1 DISCEIN	NL	0	0.4914952D+01	-0.4228088D-04	0.5043096D+01	0.9746	-first obs	14	-first obs	302
							-last obs	313	-last obs	313
2 LVCEI	NL	0	0.2033224D+00	-0.2353684D-04	0.2942311D+00	0.6910	0.2749	0.2757	0.5846	0.5838
								0.2138		0.4527
3 P08PC	NL	0	0.2435158D+00	-0.4832540D-04	0.4110697D+00	0.5924	0.0064	0.0064	0.0242	0.0241
								0.3284342D+00		0.0187
4 PTDEM	NL	0	-0.1790296D+01	-0.3629290D-04	0.1816586D+01	-0.9855		0.0049		0.0057
								0.7414		-0.0015
5 NCR0UT04	NL	0	-0.8557927D+00	-0.2343665D-05	0.9776629D+00	-0.8753	0.0156	0.0156	0.0290	0.0289
								0.5433398D+00		0.0224
6 GRPOL	NL	0	0.5264002D-01	-0.9796685D-06	0.3630711D+00	0.1450		0.0121		-0.0068
								0.3599381D+00		-0.0015
7 STR813	NL	0	0.7286746D-02	-0.4395792D-04	0.2419737D-01	0.3011		0.0037		-0.0007
								0.2380053D-01		-0.0862
8 STRP	NL	0	0.3951491D-01	-0.1162155D-04	0.6080120D-01	0.6499	-0.0860	-0.0862	-0.2130	-0.2126
								0.4910777D-01		-0.0669
9 STRCUQ	NL	0	-0.1477186D-01	-0.1191873D-03	0.1693301D-01	-0.8724		0.0202		0.0501
								0.9699811D-02		-0.0031
10 GRVOY	NL	0	-0.4082023D-02	-0.7346081D-04	0.1415447D-01	-0.2884	-0.0031	-0.0031	-0.0763	-0.0762
								0.1387071D-01		-0.0591
11 AUTPKRP	NL	0	-0.7423875D+01	-0.3001598D-04	0.7451279D+01	-0.9963		0.0007		0.0180
								0.2164045D+01		0.0001
12 GRMUMH	NL	0	0.1517080D-01	-0.1596817D-04	0.2471771D-01	0.6138	0.0001	0.0001	0.0000	0.0000
								0.1973274D-01		0.0000
13 TLK822	NL	0	0.4454492D-02	-0.1785792D-01	0.4496152D-02	0.9907	0.0004	0.0004	0.0009	0.0009
								0.8100653D-03		0.0003
14 RFK822	NL	0	0.2651091D+00	-0.7126456D-04	0.2691707D+00	0.9849		0.0001		0.0007
								0.9298892D-01		-0.0001
15 SFK822	NL	0	0.9721043D-01	-0.2326549D-03	0.1025589D+00	0.9478	0.0006	0.0006	0.0031	0.0031
								0.2099484D-01		0.0005
16 CSFMR822	NL	0	0.7154763D-02	-0.2178976D-02	0.7692636D-02	0.9301		0.0005		0.0024
								0.3825808D-02		-0.0001
17 LOIIND61	NL	0	0.1795456D+01	-0.7939859D-04	0.1716088D+01	1.0462	0.0249	0.0250	0.0239	0.0238
								0.2677078D+00		0.0194
18 LOIAS	NL	0	0.1196385D+01	-0.1773021D-04	0.1341959D+01	0.8915		-0.0059		-0.0056
								0.5018558D+00		0.0299
19 MOP62	NL	0	0.7928527D+00	-0.7570496D-04	0.7805306D+00	1.0158	0.0298	0.0299	0.0189	0.0189
								0.2933913D+00		0.0232
20 PRMVACR1	NL	0	0.6414834D+04	-0.4025249D-08	0.7165897D+04	0.8952		0.0070		0.0146
								0.2579132D+04		-0.0008
21 DUM78RAU	NL	0	-0.1614402D+00	-0.3721385D-05	0.6325671D+00	-0.2552	0.0206	0.0206	0.0170	0.0170
								0.6212171D+00		0.0160
22 SED78RAU	NL	0	0.3577454D+00	-0.1705108D-05	0.9162604D+00	0.3904		-0.0048		-0.0040
								0.8372743D+00		0.1890
23 CONSTA	NL	0	-0.6996554D+00	-0.1307771D-04	0.8784758D+00	-0.7964	0.1885	0.1890	0.2136	0.2133
								0.4401577D+00		0.1466
24 KMPARR1	EL	1	0.6430728D-01	-0.5286180D-01	0.8408103D-01	0.7648		-0.0443		0.1654
								0.1616748D-01		0.0283
25 DICR1	EL	1	0.6446746D-02	-0.2160934D-01	0.7074119D-02	0.9113	0.0282	0.0283	0.1423	0.1421
								0.3876532D-02		0.0220
26 PGRPKM	EL	1	0.5005915D+00	0.2499263D-03	0.2778340D+01	0.1802		0.0206		0.1102
								0.2724992D+01		-0.0066
27 PDRQ	EL	1	-0.8714456D+01	0.1711721D-03	0.1067079D+02	-0.8167	0.0794	0.0796	0.0943	0.0942
								0.3009105D+01		0.0617
28 ENTRNMDC	EL	1	-0.1999994D+01	-0.6301445D-03	0.1168120D+01	-1.7121		-0.0186		-0.0222
								0.5111708D+00		0.0342
							0.0341	0.0376	0.0375	0.0375
								0.0265	0.0291	0.0291
								-0.0080	-0.0088	-0.0088
								-0.0008	0.0000	0.0000
								-0.0006	0.0000	0.0000
								0.0002	0.0000	0.0000
								0.0008	0.0000	0.0000
								0.0006	0.0000	0.0000
								-0.0002	0.0000	0.0000
								-0.0123	-0.0832	-0.0831
								-0.0095	-0.0644	-0.0644
								0.0029	0.0196	0.0196
								1.0214	1.0290	1.0275
								0.7921	0.7968	0.7968
								-0.2393	-0.2420	-0.2420
								0.0441	0.0484	0.0484
								0.0342	0.0375	0.0375
								-0.0103	-0.0114	-0.0114
								0.0242	0.0263	0.0262
								0.0188	0.0203	0.0203
								-0.0057	-0.0062	-0.0062
								-0.6257	-0.6773	-0.6763
								-0.4853	-0.5245	-0.5245
								0.1466	0.1593	0.1593
								-0.6202	-0.6370	-0.6361
								-0.4810	-0.4933	-0.4933
								0.1453	0.1498	0.1498

29	PPAS	EL	1	0.1045425D+02	0.1400502D-03	0.1214911D+02 0.3611656D+01	0.8605 2.8946	0.8472	0.8496 0.6589 -0.1990	0.9196	0.9182 0.7121 -0.2162
30	SURPOL	EL	1	0.7955005D+00	-0.2475043D-03	0.8225476D+00 0.5302004D+00	0.9671 1.5004	0.1560	0.1564 0.1213 -0.0366	0.1496	0.1494 0.1158 -0.0352
31	PERPA	EL	1	-0.2914093D+01	-0.2471596D-04	0.3132012D+01 0.1293732D+01	-0.9304 -2.2525	-0.3772	-0.3783 -0.2934 0.0886	-0.3769	-0.3764 -0.2919 0.0886
32	PRCHOM	EL	1	-0.4155666D+01	0.2150702D-03	0.5442394D+01 0.8315997D+00	-0.7636 -4.9972	-0.2448	-0.2455 -0.1904 0.0575	-0.2603	-0.2599 -0.2015 0.0612
33	PRFEVM	EL	1	0.3245188D+01	0.2615822D-03	0.5670207D+01 0.3025274D+01	0.5723 1.0727	0.1452	0.1456 0.1129 -0.0341	0.1388	0.1386 0.1075 -0.0326
34	HEUHM	EL	1	-0.2069490D+01	-0.5328459D-03	0.1720754D+01 0.1301411D+01	-1.2027 -1.5902	-0.5791	-0.5807 -0.4504 0.1360	-0.5563	-0.5555 -0.4308 0.1308
35	PRMED	EL	1	0.6001856D+00	-0.1139243D-03	0.8869847D+00 0.5469198D+00	0.6767 1.0974	0.0938	0.0940 0.0729 -0.0220	0.0958	0.0956 0.0742 -0.0225
36	PRALT	EL	1	-0.2888369D+00	0.3135416D-04	0.9100887D+00 0.9000579D+00	-0.3174 -0.3209	-0.0327	-0.0328 -0.0255 0.0077	-0.0324	-0.0324 -0.0251 0.0076
37	PRMTRARI	EL	1	0.3701760D+02	0.3675965D-03	0.8024705D+02 0.1204851D+02	0.4613 3.0724	0.4948	0.4962 0.3849 -0.1163	0.4609	0.4603 0.3570 -0.1084
38	PRMMAGRI	EL	1	0.3418017D+01	0.1456947D-03	0.4157511D+01 0.1705126D+01	0.8221 2.0046	0.2702	0.2710 0.2102 -0.0635	0.2665	0.2661 0.2064 -0.0627
39	DMSR	EL	1	-0.1766050D+01	-0.7405861D-03	0.9111110D+00 0.1542549D+00	-1.9383 -11.4489	-0.6043	-0.6060 -0.4700 0.1420	-0.5664	-0.5656 -0.4386 0.1332
40	WD	EL	1	0.1455762D+01	-0.4027940D-03	0.1115546D+01 0.7117801D+00	1.3050 2.0452	0.3514	0.3523 0.2733 -0.0825	0.3428	0.3423 0.2655 -0.0806
41	SAT	EL	1	0.7756181D+00	-0.1605650D-03	0.7331345D+00 0.3030130D+00	1.0579 2.5597	0.1317	0.1320 0.1024 -0.0309	0.1282	0.1280 0.0993 -0.0301
42	SHD	EL	1	0.9090833D+00	-0.1840774D-03	0.7625524D+00 0.2917740D+00	1.1922 3.1157	0.1608	0.1613 0.1251 -0.0378	0.1557	0.1555 0.1206 -0.0366
43	constant	NL	0	0.1710185D+03	-0.9255066D-04	0.2907280D+03 0.4781313D+02	0.5882 3.5768	20.8790	20.9382 16.2384 -4.9053	20.3429	20.3128 15.7536 -4.7839

Autocorrelation

44	rho 1			0.2624793D+00	0.2457200D-04	0.6568511D-01 0.6567132D-01	3.9960 3.9969				
45	rho 2			-0.2543728D+00	0.4678938D-04	0.6819101D-01 0.6816956D-01	-3.7303 -3.7315				
46	rho 3			-0.1329929D+00	-0.3906077D-05	0.7650185D-01 0.7587487D-01	-1.7384 -1.7528				
47	rho 4			0.3859182D-01	-0.4346147D-04	0.7298037D-01 0.7297411D-01	0.5288 0.5288				
48	rho 5			-0.2224149D+00	-0.1913756D-04	0.6739532D-01 0.6736408D-01	-3.3002 -3.3017				
49	rho 7			-0.1272413D+00	0.7988737D-05	0.7077920D-01 0.7065753D-01	-1.7977 -1.8008				
50	rho 9			-0.1288095D+00	0.1480610D-04	0.6249875D-01 0.6235373D-01	-2.0610 -2.0658				
51	rho 10			-0.1359208D+00	-0.9305322D-05	0.6640514D-01 0.6639214D-01	-2.0468 -2.0472				
52	rho 12			0.3178850D+00	-0.2867609D-04	0.6777605D-01 0.6754096D-01	4.6902 4.7066				

Box-cox on (x)

53	lambda(x) 1 = lambda(y)			0.2243493D+00	-0.8035206D-01	0.1075612D+00	2.0858 -7.2112				
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Residual (w)

54	error variance			0.3212715D+00	0.1560974D-12	0.6404883D+00 0.3396133D-01	0.5016 9.4599				
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LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.7066733D+04	0.6984821D+04	0.3762092D+03	-0.2254361D-01
2 LVCEI	0.2923376D+03	0.2889491D+03	0.1556308D+02	-0.9325873D-03

3	P08PC	0.3501278D+03	0.3460694D+03	0.1863963D+02	-0.1116944D-02
4	PTDEM	-0.2574094D+04	-0.2544257D+04	-0.1370361D+03	0.8211625D-02
5	NCR0UT04	-0.1230461D+04	-0.1216199D+04	-0.6550565D+02	0.3925299D-02
6	GRPOL	0.7568599D+02	0.7480869D+02	0.4029269D+01	-0.2414461D-03
7	STR813	0.1047691D+02	0.1035546D+02	0.5577554D+00	-0.3342241D-04
8	STRP	0.5681466D+02	0.5615611D+02	0.3024623D+01	-0.1812446D-03
9	STRCUQ	-0.2123902D+02	-0.2099283D+02	-0.1130695D+01	0.6775468D-04
10	GRVOY	-0.5869146D+01	-0.5801115D+01	-0.3124537D+00	0.1872318D-04
11	AUTPKRP	-0.1067407D+05	-0.1055034D+05	-0.5682518D+03	0.3405139D-01
12	GRMUMH	0.2181263D+02	0.2155979D+02	0.1161231D+01	-0.6958454D-04
13	TLK822	0.6404682D+01	0.6330443D+01	0.3409638D+00	-0.2043160D-04
14	RFK822	0.3811746D+03	0.3767563D+03	0.2029246D+02	-0.1215987D-02
15	SFK822	0.1397695D+03	0.1381493D+03	0.7440859D+01	-0.4458790D-03
16	CSFMR822	0.1028714D+02	0.1016790D+02	0.5476530D+00	-0.3281704D-04
17	LOIIND61	0.2581511D+04	0.2551588D+04	0.1374310D+03	-0.8235289D-02
18	LOIAS	0.1720166D+04	0.1700228D+04	0.9157591D+02	-0.5487509D-02
19	MOP62	0.1139966D+04	0.1126752D+04	0.6068798D+02	-0.3636610D-02
20	PRMVACR1	0.9223269D+07	0.9116359D+07	0.4910160D+06	-0.2942318D+02
21	DUM78RAU	-0.2321192D+03	-0.2294286D+03	-0.1235725D+02	0.7404842D-03
22	SED78RAU	0.5143674D+03	0.5084052D+03	0.2738320D+02	-0.1640885D-02
23	CONSTA	-0.1005967D+04	-0.9943062D+03	-0.5355430D+02	0.3209138D-02
24	KMPARR1	0.4576475D-05	0.4523428D-05	0.2436362D-06	-0.1459943D-10
25	DICR1	0.8424170D-05	0.8326523D-05	0.4484746D-06	-0.2687397D-10
26	PGRPKM	0.1776623D+05	0.1756030D+05	0.9458148D+03	-0.5667612D-01
27	PDRQ	-0.7928019D+05	-0.7836123D+05	-0.4220612D+04	0.2529120D+00
28	ENTRNMD	-0.1156950D+03	-0.1143539D+03	-0.6159213D+01	0.3690789D-03
29	PPAS	0.6199894D+05	0.6128029D+05	0.3300616D+04	-0.1977830D+00
30	SURPOL	0.2224323D+03	0.2198541D+03	0.1184155D+02	-0.7095822D-03
31	PERPA	-0.3422928D+04	-0.3383252D+04	-0.1822253D+03	0.1091950D-01
32	PRCHOM	-0.7423520D+05	-0.7337472D+05	-0.3952034D+04	0.2368180D+00
33	PRFEVM	0.1500241D+06	0.1482852D+06	0.7986784D+04	-0.4785925D+00
34	HEUHM	-0.1691472D+03	-0.1671865D+03	-0.9004829D+01	0.5395969D-03
35	PRMED	0.3676716D+03	0.3634098D+03	0.1957361D+02	-0.1172910D-02
36	PRALT	-0.5373950D+03	-0.5311659D+03	-0.2860912D+02	0.1714346D-02
37	PRMTRAR1	0.1114959D+09	0.1102036D+09	0.5935671D+07	-0.3556836D+03
38	PRMMAGR1	0.2208020D+05	0.2182426D+05	0.1175476D+04	-0.7043812D-01
39	DMSR	-0.7198692D+02	-0.7115250D+02	-0.3832343D+01	0.2296457D-03
40	WD	0.1983640D+03	0.1960647D+03	0.1056024D+02	-0.6328017D-03
41	SAT	0.3567475D+03	0.3526124D+03	0.1899205D+02	-0.1138062D-02
42	SHD	0.3624195D+03	0.3582186D+03	0.1929400D+02	-0.1156156D-02
43	constant	0.2458909D+06	0.2430407D+06	0.1309041D+05	-0.7844173D+00

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1857D+02	-0.3098D+06
SIGMA(y)	0.5386D-01	0.1000D+01	-0.1669D+05
GAMMA(y)	-0.3228D-05	-0.5992D-04	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E (y)	SIGMA (y)	GAMMA (y)
E (y)	0.1000D+01	0.1289D+01	-0.4269D+01
SIGMA (y)	0.7755D+00	0.1000D+01	-0.3310D+01
GAMMA (y)	-0.2343D+00	-0.3021D+00	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.4137D-01	0.4955D-01	-0.3643D+00	-0.1741D+00	0.1071D-01	0.1483D-02	0.8040D-02	-0.3005D-02	-0.8305D-03
LVCEI		0.2417D+02	0.1000D+01	0.1198D+01	-0.8805D+01	-0.4209D+01	0.2589D+00	0.3584D-01	0.1943D+00	-0.7265D-01	-0.2008D-01
P08PC		0.2018D+02	0.8349D+00	0.1000D+01	-0.7352D+01	-0.3514D+01	0.2162D+00	0.2992D-01	0.1623D+00	-0.6066D-01	-0.1676D-01
PTDEM		-0.2745D+01	-0.1136D+00	-0.1360D+00	0.1000D+01	0.4780D+00	-0.2940D-01	-0.4070D-02	-0.2207D-01	0.8251D-02	0.2280D-02
NCROUT04		-0.5743D+01	-0.2376D+00	-0.2846D+00	0.2092D+01	0.1000D+01	-0.6151D-01	-0.8515D-02	-0.4617D-01	0.1726D-01	0.4770D-02
GRPOL		0.9337D+02	0.3863D+01	0.4626D+01	-0.3401D+02	-0.1626D+02	0.1000D+01	0.1384D+00	0.7507D+00	-0.2806D+00	-0.7755D-01
STR813		0.6745D+03	0.2790D+02	0.3342D+02	-0.2457D+03	-0.1174D+03	0.7224D+01	0.1000D+01	0.5423D+01	-0.2027D+01	-0.5602D+00
STRP		0.1244D+03	0.5145D+01	0.6163D+01	-0.4531D+02	-0.2166D+02	0.1332D+01	0.1844D+00	0.1000D+01	-0.3738D+00	-0.1033D+00
STRCUQ		-0.3327D+03	-0.1376D+02	-0.1649D+02	0.1212D+03	0.5793D+02	-0.3564D+01	-0.4933D+00	-0.2675D+01	0.1000D+01	0.2763D+00
GRVOY		-0.1204D+04	-0.4981D+02	-0.5966D+02	0.4386D+03	0.2096D+03	-0.1290D+02	-0.1785D+01	-0.9680D+01	0.3619D+01	0.1000D+01
AUTPKRP		-0.6620D+00	-0.2739D-01	-0.3280D-01	0.2412D+00	0.1153D+00	-0.7091D-02	-0.9815D-03	-0.5323D-02	0.1990D-02	0.5499D-03
GRMUMH		0.3240D+03	0.1340D+02	0.1605D+02	-0.1180D+03	-0.5641D+02	0.3470D+01	0.4803D+00	0.2605D+01	-0.9737D+00	-0.2691D+00
TLK822		0.1103D+04	0.4564D+02	0.5467D+02	-0.4019D+03	-0.1921D+03	0.1182D+02	0.1636D+01	0.8871D+01	-0.3316D+01	-0.9164D+00
RFK822		0.1854D+02	0.7669D+00	0.9185D+00	-0.6753D+01	-0.3228D+01	0.1986D+00	0.2749D-01	0.1491D+00	-0.5572D-01	-0.1540D-01
SFK822		0.5056D+02	0.2092D+01	0.2505D+01	-0.1842D+02	-0.8804D+01	0.5415D+00	0.7496D-01	0.4065D+00	-0.1520D+00	-0.4199D-01
CSFMR822		0.6869D+03	0.2842D+02	0.3404D+02	-0.2502D+03	-0.1196D+03	0.7357D+01	0.1018D+01	0.5523D+01	-0.2065D+01	-0.5705D+00
LOIIND61		0.2737D+01	0.1132D+00	0.1356D+00	-0.9971D+00	-0.4766D+00	0.2932D-01	0.4058D-02	0.2201D-01	-0.8227D-02	-0.2274D-02
LOIAS		0.4108D+01	0.1699D+00	0.2035D+00	-0.1496D+01	-0.7153D+00	0.4400D-01	0.6091D-02	0.3303D-01	-0.1235D-01	-0.3412D-02
MOP62		0.6199D+01	0.2564D+00	0.3071D+00	-0.2258D+01	-0.1079D+01	0.6639D-01	0.9191D-02	0.4984D-01	-0.1863D-01	-0.5149D-02
PRMVACR1		0.7662D-03	0.3170D-04	0.3796D-04	-0.2791D-03	-0.1334D-03	0.8206D-05	0.1136D-05	0.6160D-05	-0.2303D-05	-0.6363D-06
DUM78RAU		-0.3044D+02	-0.1259D+01	-0.1508D+01	0.1109D+02	0.5301D+01	-0.3261D+00	-0.4514D-01	-0.2448D+00	0.9150D-01	0.2529D-01
SED78RAU		0.1374D+02	0.5683D+00	0.6807D+00	-0.5004D+01	-0.2392D+01	0.1471D+00	0.2037D-01	0.1105D+00	-0.4129D-01	-0.1141D-01
CONSTA		-0.7025D+01	-0.2906D+00	-0.3481D+00	0.2559D+01	0.1223D+01	-0.7524D-01	-0.1041D-01	-0.5648D-01	0.2111D-01	0.5834D-02
KMPARR1		0.1544D+10	0.6388D+08	0.7651D+08	-0.5625D+09	-0.2689D+09	0.1654D+08	0.2289D+07	0.1241D+08	-0.4641D+07	-0.1282D+07
DICR1		0.8389D+09	0.3470D+08	0.4156D+08	-0.3056D+09	-0.1461D+09	0.8984D+07	0.1244D+07	0.6744D+07	-0.2521D+07	-0.6967D+06
PGRPKM		0.3978D+00	0.1645D-01	0.1971D-01	-0.1449D+00	-0.6926D-01	0.4260D-02	0.5897D-03	0.3198D-02	-0.1195D-02	-0.3304D-03
PDRQ		-0.8914D-01	-0.3687D-02	-0.4416D-02	0.3247D-01	0.1552D-01	-0.9547D-03	-0.1322D-03	-0.7166D-03	0.2679D-03	0.7403D-04
ENTRNMDC		-0.6108D+02	-0.2527D+01	-0.3026D+01	0.2225D+02	0.1064D+02	-0.6542D+00	-0.9056D-01	-0.4911D+00	0.1836D+00	0.5073D-01
PPAS		0.1140D+00	0.4715D-02	0.5647D-02	-0.4152D-01	-0.1985D-01	0.1221D-02	0.1690D-03	0.9164D-03	-0.3426D-03	-0.9467D-04
SURPOL		0.3177D+02	0.1314D+01	0.1574D+01	-0.1157D+02	-0.5532D+01	0.3403D+00	0.4710D-01	0.2554D+00	-0.9549D-01	-0.2639D-01
PERPA		-0.2065D+01	-0.8541D-01	-0.1023D+00	0.7520D+00	0.3595D+00	-0.2211D-01	-0.3061D-02	-0.1660D-01	0.6205D-02	0.1715D-02
PRCHOM		-0.9519D-01	-0.3938D-02	-0.4716D-02	0.3467D-01	0.1658D-01	-0.1020D-02	-0.1411D-03	-0.7653D-03	0.2861D-03	0.7906D-04
PRFEVM		0.4710D-01	0.1949D-02	0.2334D-02	-0.1716D-01	-0.8202D-02	0.5045D-03	0.6983D-04	0.3787D-03	-0.1416D-03	-0.3912D-04
HEUHM		-0.4178D+02	-0.1728D+01	-0.2070D+01	0.1522D+02	0.7275D+01	-0.4475D+00	-0.6194D-01	-0.3359D+00	0.1256D+00	0.3470D-01
PRMED		0.1922D+02	0.7951D+00	0.9523D+00	-0.7001D+01	-0.3347D+01	0.2059D+00	0.2850D-01	0.1545D+00	-0.5777D-01	-0.1596D-01
PRALT		-0.1315D+02	-0.5440D+00	-0.6515D+00	0.4790D+01	0.2290D+01	-0.1408D+00	-0.1950D-01	-0.1057D+00	0.3952D-01	0.1092D-01
PRMTRAR1		0.6338D-04	0.2622D-05	0.3140D-05	-0.2309D-04	-0.1104D-04	0.6788D-06	0.9397D-07	0.5096D-06	-0.1905D-06	-0.5264D-07
PRMMAGR1		0.3200D+00	0.1324D-01	0.1586D-01	-0.1166D+00	-0.5573D-01	0.3428D-02	0.4745D-03	0.2573D-02	-0.9619D-03	-0.2658D-03
DMSR		-0.9817D+02	-0.4061D+01	-0.4864D+01	0.3576D+02	0.1709D+02	-0.1051D+01	-0.1455D+00	-0.7892D+00	0.2950D+00	0.8153D-01
WD		0.3563D+02	0.1474D+01	0.1765D+01	-0.1298D+02	-0.6203D+01	0.3816D+00	0.5282D-01	0.2864D+00	-0.1071D+00	-0.2959D-01
SAT		0.1981D+02	0.8195D+00	0.9814D+00	-0.7215D+01	-0.3449D+01	0.2122D+00	0.2937D-01	0.1593D+00	-0.5954D-01	-0.1645D-01
SHD		0.1950D+02	0.8066D+00	0.9661D+00	-0.7103D+01	-0.3395D+01	0.2088D+00	0.2891D-01	0.1568D+00	-0.5860D-01	-0.1619D-01

constant	0.2874D-01	0.1189D-02	0.1424D-02	-0.1047D-01	-0.5004D-02	0.3078D-03	0.4261D-04	0.2311D-03	-0.8638D-04	-0.2387D-04
X (k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
X (l)										
DISCEIN	-0.1510D+01	0.3087D-02	0.9063D-03	0.5394D-01	0.1978D-01	0.1456D-02	0.3653D+00	0.2434D+00	0.1613D+00	0.1305D+04
LVCEI	-0.3651D+02	0.7461D-01	0.2191D-01	0.1304D+01	0.4781D+00	0.3519D-01	0.8831D+01	0.5884D+01	0.3899D+01	0.3155D+05
P08PC	-0.3049D+02	0.6230D-01	0.1829D-01	0.1089D+01	0.3992D+00	0.2938D-01	0.7373D+01	0.4913D+01	0.3256D+01	0.2634D+05
PTDEM	0.4147D+01	-0.8474D-02	-0.2488D-02	-0.1481D+00	-0.5430D-01	-0.3996D-02	-0.1003D+01	-0.6683D+00	-0.4429D+00	-0.3583D+04
NCROUT04	0.8675D+01	-0.1773D-01	-0.5205D-02	-0.3098D+00	-0.1136D+00	-0.8360D-02	-0.2098D+01	-0.1398D+01	-0.9265D+00	-0.7496D+04
GRPOL	-0.1410D+03	0.2882D+00	0.8462D-01	0.5036D+01	0.1847D+01	0.1359D+00	0.3411D+02	0.2273D+02	0.1506D+02	0.1219D+06
STR813	-0.1019D+04	0.2082D+01	0.6113D+00	0.3638D+02	0.1334D+02	0.9819D+00	0.2464D+03	0.1642D+03	0.1088D+03	0.8803D+06
STRP	-0.1879D+03	0.3839D+00	0.1127D+00	0.6709D+01	0.2460D+01	0.1811D+00	0.4544D+02	0.3028D+02	0.2006D+02	0.1623D+06
STRCUQ	0.5026D+03	-0.1027D+01	-0.3016D+00	-0.1795D+02	-0.6581D+01	-0.4844D+00	-0.1215D+03	-0.8099D+02	-0.5367D+02	-0.4343D+06
GRVOY	0.1819D+04	-0.3716D+01	-0.1091D+01	-0.6495D+02	-0.2381D+02	-0.1753D+01	-0.4398D+03	-0.2931D+03	-0.1942D+03	-0.1571D+07
AUTPKRP	0.1000D+01	-0.2044D-02	-0.6000D-03	-0.3571D-01	-0.1309D-01	-0.9638D-03	-0.2418D+00	-0.1612D+00	-0.1068D+00	-0.8641D+03
GRMUMH	-0.4894D+03	0.1000D+01	0.2936D+00	0.1747D+02	0.6408D+01	0.4716D+00	0.1183D+03	0.7886D+02	0.5226D+02	0.4228D+06
TLK822	-0.1667D+04	0.3406D+01	0.1000D+01	0.5952D+02	0.2182D+02	0.1606D+01	0.4031D+03	0.2686D+03	0.1780D+03	0.1440D+07
RFK822	-0.2800D+02	0.5722D-01	0.1680D-01	0.1000D+01	0.3667D+00	0.2699D-01	0.6773D+01	0.4513D+01	0.2991D+01	0.2420D+05
SFK822	-0.7637D+02	0.1561D+00	0.4582D-01	0.2727D+01	0.1000D+01	0.7360D-01	0.1847D+02	0.1231D+02	0.8156D+01	0.6599D+05
CSFMR822	-0.1038D+04	0.2120D+01	0.6226D+00	0.3705D+02	0.1359D+02	0.1000D+01	0.2509D+03	0.1672D+03	0.1108D+03	0.8966D+06
LOIIND61	-0.4135D+01	0.8450D-02	0.2481D-02	0.1477D+00	0.5414D-01	0.3985D-02	0.1000D+01	0.6663D+00	0.4416D+00	0.3573D+04
LOIAS	-0.6205D+01	0.1268D-01	0.3723D-02	0.2216D+00	0.8125D-01	0.5980D-02	0.1501D+01	0.1000D+01	0.6627D+00	0.5362D+04
MOP62	-0.9363D+01	0.1913D-01	0.5618D-02	0.3344D+00	0.1226D+00	0.9024D-02	0.2265D+01	0.1509D+01	0.1000D+01	0.8091D+04
PRMVACR1	-0.1157D-02	0.2365D-05	0.6944D-06	0.4133D-04	0.1515D-04	0.1115D-05	0.2799D-03	0.1865D-03	0.1236D-03	0.1000D+01
DUM78RAU	0.4599D+02	-0.9397D-01	-0.2759D-01	-0.1642D+01	-0.6021D+00	-0.4432D-01	-0.1112D+02	-0.7411D+01	-0.4911D+01	-0.3974D+05
SED78RAU	-0.2075D+02	0.4241D-01	0.1245D-01	0.7411D+00	0.2717D+00	0.2000D-01	0.5019D+01	0.3344D+01	0.2216D+01	0.1793D+05
CONSTA	0.1061D+02	-0.2168D-01	-0.6367D-02	-0.3789D+00	-0.1389D+00	-0.1023D-01	-0.2566D+01	-0.1710D+01	-0.1133D+01	-0.9169D+04
KMPARR1	-0.2332D+10	0.4766D+07	0.1399D+07	0.8329D+08	0.3054D+08	0.2248D+07	0.5641D+09	0.3759D+09	0.2491D+09	0.2015D+13
DICR1	-0.1267D+10	0.2589D+07	0.7603D+06	0.4525D+08	0.1659D+08	0.1221D+07	0.3064D+09	0.2042D+09	0.1353D+09	0.1095D+13
PGRPKM	-0.6008D+00	0.1228D-02	0.3605D-03	0.2146D-01	0.7867D-02	0.5790D-03	0.1453D+00	0.9682D-01	0.6416D-01	0.5191D+03
PDRQ	0.1346D+00	-0.2751D-03	-0.8079D-04	-0.4808D-02	-0.1763D-02	-0.1298D-03	-0.3256D-01	-0.2170D-01	-0.1438D-01	-0.1163D+03
ENTRNMDC	0.9226D+02	-0.1885D+00	-0.5536D-01	-0.3295D+01	-0.1208D+01	-0.8892D-01	-0.2231D+02	-0.1487D+02	-0.9853D+01	-0.7972D+05
PPAS	-0.1722D+00	0.3518D-03	0.1033D-03	0.6148D-02	0.2254D-02	0.1659D-03	0.4164D-01	0.2775D-01	0.1839D-01	0.1488D+03
SURPOL	-0.4799D+02	0.9806D-01	0.2879D-01	0.1714D+01	0.6284D+00	0.4625D-01	0.1161D+02	0.7733D+01	0.5125D+01	0.4147D+05
PERPA	0.3118D+01	-0.6373D-02	-0.1871D-02	-0.1114D+00	-0.4083D-01	-0.3005D-02	-0.7542D+00	-0.5025D+00	-0.3330D+00	-0.2695D+04
PRCHOM	0.1438D+00	-0.2938D-03	-0.8628D-04	-0.5135D-02	-0.1883D-02	-0.1386D-03	-0.3477D-01	-0.2317D-01	-0.1536D-01	-0.1242D+03
PRFEVM	-0.7115D-01	0.1454D-03	0.4269D-04	0.2541D-02	0.9316D-03	0.6857D-04	0.1721D-01	0.1147D-01	0.7599D-02	0.6148D+02
HEUHM	0.6311D+02	-0.1290D+00	-0.3786D-01	-0.2254D+01	-0.8263D+00	-0.6082D-01	-0.1526D+02	-0.1017D+02	-0.6739D+01	-0.5453D+05
PRMED	-0.2903D+02	0.5933D-01	0.1742D-01	0.1037D+01	0.3801D+00	0.2798D-01	0.7021D+01	0.4679D+01	0.3101D+01	0.2509D+05
PRALT	0.1986D+02	-0.4059D-01	-0.1192D-01	-0.7093D+00	-0.2601D+00	-0.1914D-01	-0.4804D+01	-0.3201D+01	-0.2121D+01	-0.1716D+05
PRMTRAR1	-0.9574D-04	0.1956D-06	0.5744D-07	0.3419D-05	0.1254D-05	0.9226D-07	0.2315D-04	0.1543D-04	0.1022D-04	0.8272D-01
PRMMAGR1	-0.4834D+00	0.9879D-03	0.2901D-03	0.1726D-01	0.6330D-02	0.4659D-03	0.1169D+00	0.7791D-01	0.5163D-01	0.4177D+03
DMSR	0.1483D+03	-0.3030D+00	-0.8897D-01	-0.5295D+01	-0.1942D+01	-0.1429D+00	-0.3586D+02	-0.2390D+02	-0.1584D+02	-0.1281D+06
WD	-0.5381D+02	0.1100D+00	0.3229D-01	0.1922D+01	0.7046D+00	0.5186D-01	0.1301D+02	0.8672D+01	0.5747D+01	0.4650D+05
SAT	-0.2992D+02	0.6114D-01	0.1795D-01	0.1068D+01	0.3918D+00	0.2884D-01	0.7236D+01	0.4822D+01	0.3195D+01	0.2585D+05
SHD	-0.2945D+02	0.6019D-01	0.1767D-01	0.1052D+01	0.3857D+00	0.2838D-01	0.7123D+01	0.4746D+01	0.3145D+01	0.2545D+05
constant	-0.4341D-01	0.8871D-04	0.2605D-04	0.1550D-02	0.5684D-03	0.4184D-04	0.1050D-01	0.6996D-02	0.4636D-02	0.3751D+02
X (k)	DUM78RAU	SED78RAU	CONSTA	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL
X (l)										
DISCEIN	-0.3285D-01	0.7279D-01	-0.1424D+00	0.6476D-09	0.1192D-08	0.2514D+01	-0.1122D+02	-0.1637D-01	0.8773D+01	0.3148D-01
LVCEI	-0.7940D+00	0.1759D+01	-0.3441D+01	0.1565D-07	0.2882D-07	0.6077D+02	-0.2712D+03	-0.3958D+00	0.2121D+03	0.7609D+00

P08PC	-0.6630D+00	0.1469D+01	-0.2873D+01	0.1307D-07	0.2406D-07	0.5074D+02	-0.2264D+03	-0.3304D+00	0.1771D+03	0.6353D+00
PTDEM	0.9018D-01	-0.1998D+00	0.3908D+00	-0.1778D-08	-0.3273D-08	-0.6902D+01	0.3080D+02	0.4495D-01	-0.2409D+02	-0.8641D-01
NCROUT04	0.1886D+00	-0.4180D+00	0.8176D+00	-0.3719D-08	-0.6846D-08	-0.1444D+02	0.6443D+02	0.9403D-01	-0.5039D+02	-0.1808D+00
GRPOL	-0.3067D+01	0.6796D+01	-0.1329D+02	0.6047D-07	0.1113D-06	0.2347D+03	-0.1047D+04	-0.1529D+01	0.8192D+03	0.2939D+01
STR813	-0.2216D+02	0.4910D+02	-0.9602D+02	0.4368D-06	0.8041D-06	0.1696D+04	-0.7567D+04	-0.1104D+02	0.5918D+04	0.2123D+02
STRP	-0.4086D+01	0.9053D+01	-0.1771D+02	0.8055D-07	0.1483D-06	0.3127D+03	-0.1395D+04	-0.2036D+01	0.1091D+04	0.3915D+01
STRCUQ	0.1093D+02	-0.2422D+02	0.4736D+02	-0.2155D-06	-0.3966D-06	-0.8365D+03	0.3733D+04	0.5447D+01	-0.2919D+04	-0.1047D+02
GRVOY	0.3955D+02	-0.8764D+02	0.1714D+03	-0.7798D-06	-0.1435D-05	-0.3027D+04	0.1351D+05	0.1971D+02	-0.1056D+05	-0.3790D+02
AUTPKRP	0.2175D-01	-0.4819D-01	0.9424D-01	-0.4287D-09	-0.7892D-09	-0.1664D+01	0.7427D+01	0.1084D-01	-0.5808D+01	-0.2084D-01
GRMUMH	-0.1064D+02	0.2358D+02	-0.4612D+02	0.2098D-06	0.3862D-06	0.8145D+03	-0.3635D+04	-0.5304D+01	0.2842D+04	0.1020D+02
TLK822	-0.3624D+02	0.8031D+02	-0.1571D+03	0.7146D-06	0.1315D-05	0.2774D+04	-0.1238D+05	-0.1806D+02	0.9680D+04	0.3473D+02
RFK822	-0.6090D+00	0.1349D+01	-0.2639D+01	0.1201D-07	0.2210D-07	0.4661D+02	-0.2080D+03	-0.3035D+00	0.1627D+03	0.5835D+00
SFK822	-0.1661D+01	0.3680D+01	-0.7197D+01	0.3274D-07	0.6027D-07	0.1271D+03	-0.5672D+03	-0.8278D+00	0.4436D+03	0.1591D+01
CSFMR822	-0.2256D+02	0.5000D+02	-0.9779D+02	0.4449D-06	0.8189D-06	0.1727D+04	-0.7707D+04	-0.1125D+02	0.6027D+04	0.2162D+02
LOIIND61	-0.8992D-01	0.1993D+00	-0.3897D+00	0.1773D-08	0.3263D-08	0.6882D+01	-0.3071D+02	-0.4482D-01	0.2402D+02	0.8616D-01
LOIAS	-0.1349D+00	0.2990D+00	-0.5848D+00	0.2660D-08	0.4897D-08	0.1033D+02	-0.4609D+02	-0.6726D-01	0.3604D+02	0.1293D+00
MOP62	-0.2036D+00	0.4512D+00	-0.8825D+00	0.4015D-08	0.7390D-08	0.1558D+02	-0.6955D+02	-0.1015D+00	0.5439D+02	0.1951D+00
PRMVACR1	-0.2517D-04	0.5577D-04	-0.1091D-03	0.4962D-12	0.9134D-12	0.1926D-02	-0.8596D-02	-0.1254D-04	0.6722D-02	0.2412D-04
DUM78RAU	0.1000D+01	-0.2216D+01	0.4334D+01	-0.1972D-07	-0.3629D-07	-0.7654D+02	0.3415D+03	0.4984D+00	-0.2671D+03	-0.9583D+00
SED78RAU	-0.4513D+00	0.1000D+01	-0.1956D+01	0.8897D-08	0.1638D-07	0.3454D+02	-0.1541D+03	-0.2249D+00	0.1205D+03	0.4324D+00
CONSTA	0.2307D+00	-0.5113D+00	0.1000D+01	-0.4549D-08	-0.8374D-08	-0.1766D+02	0.7881D+02	0.1150D+00	-0.6163D+02	-0.2211D+00
KMPARR1	-0.5072D+08	0.1124D+09	-0.2198D+09	0.1000D+01	0.1841D+01	0.3882D+10	-0.1732D+11	-0.2528D+08	0.1355D+11	0.4860D+08
DICR1	-0.2755D+08	0.6106D+08	-0.1194D+09	0.5433D+00	0.1000D+01	0.2109D+10	-0.9411D+10	-0.1373D+08	0.7360D+10	0.2640D+08
PGRPKM	-0.1307D-01	0.2895D-01	-0.5662D-01	0.2576D-09	0.4742D-09	0.1000D+01	-0.4462D+01	-0.6512D-02	0.3490D+01	0.1252D-01
PDRQ	0.2928D-02	-0.6488D-02	0.1269D-01	-0.5773D-10	-0.1063D-09	-0.2241D+00	0.1000D+01	0.1459D-02	-0.7820D+00	-0.2806D-02
ENTRNMDC	0.2006D+01	-0.4446D+01	0.8695D+01	-0.3956D-07	-0.7281D-07	-0.1536D+03	0.6853D+03	0.1000D+01	-0.5359D+03	-0.1923D+01
FPAS	-0.3744D-02	0.8296D-02	-0.1623D-01	0.7382D-10	0.1359D-09	0.2866D+00	-0.1279D+01	-0.1866D-02	0.1000D+01	0.3588D-02
SURPOL	-0.1044D+01	0.2312D+01	-0.4523D+01	0.2057D-07	0.3787D-07	0.7987D+02	-0.3564D+03	-0.5201D+00	0.2787D+03	0.1000D+01
PERPA	0.6781D-01	-0.1503D+00	0.2939D+00	-0.1337D-08	-0.2461D-08	-0.5190D+01	0.2316D+02	0.3380D-01	-0.1811D+02	-0.6498D-01
PRCHOM	0.3127D-02	-0.6929D-02	0.1355D-01	-0.6165D-10	-0.1135D-09	-0.2393D+00	0.1068D+01	0.1558D-02	-0.8352D+00	-0.2996D-02
PRFEVM	-0.1547D-02	0.3429D-02	-0.6705D-02	0.3050D-10	0.5615D-10	0.1184D+00	-0.5284D+00	-0.7712D-03	0.4133D+00	0.1483D-02
HEUHM	0.1372D+01	-0.3041D+01	0.5947D+01	-0.2706D-07	-0.4980D-07	-0.1050D+03	0.4687D+03	0.6840D+00	-0.3665D+03	-0.1315D+01
PRMED	-0.6313D+00	0.1399D+01	-0.2736D+01	0.1245D-07	0.2291D-07	0.4832D+02	-0.2156D+03	-0.3147D+00	0.1686D+03	0.6050D+00
PRALT	0.4319D+00	-0.9571D+00	0.1872D+01	-0.8516D-08	-0.1568D-07	-0.3306D+02	0.1475D+03	0.2153D+00	-0.1154D+03	-0.4139D+00
PRMTRAR1	-0.2082D-05	0.4613D-05	-0.9022D-05	0.4105D-13	0.7556D-13	0.1593D-03	-0.7111D-03	-0.1038D-05	0.5561D-03	0.1995D-05
PRMMAGR1	-0.1051D-01	0.2330D-01	-0.4556D-01	0.2073D-09	0.3815D-09	0.8046D+00	-0.3591D+01	-0.5240D-02	0.2808D+01	0.1007D-01
DMSR	0.3224D+01	-0.7145D+01	0.1397D+02	-0.6357D-07	-0.1170D-06	-0.2468D+03	0.1101D+04	0.1607D+01	-0.8613D+03	-0.3090D+01
WD	-0.1170D+01	0.2593D+01	-0.5071D+01	0.2307D-07	0.4247D-07	0.8956D+02	-0.3997D+03	-0.5832D+00	0.3126D+03	0.1121D+01
SAT	-0.6507D+00	0.1442D+01	-0.2820D+01	0.1283D-07	0.2361D-07	0.4980D+02	-0.2222D+03	-0.3243D+00	0.1738D+03	0.6235D+00
SHD	-0.6405D+00	0.1419D+01	-0.2776D+01	0.1263D-07	0.2324D-07	0.4902D+02	-0.2188D+03	-0.3192D+00	0.1711D+03	0.6137D+00
constant	-0.9440D-03	0.2092D-02	-0.4091D-02	0.1861D-10	0.3426D-10	0.7225D-01	-0.3224D+00	-0.4705D-03	0.2521D+00	0.9046D-03
=====										
X(k)	PERPA	PRCHOM	PRFEVM	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	DMSR	WD
=====										
X(l)										
=====										
DISCEIN	-0.4844D+00	-0.1050D+02	0.2123D+02	-0.2394D-01	0.5203D-01	-0.7605D-01	0.1578D+05	0.3125D+01	-0.1019D-01	0.2807D-01
LVCEI	-0.1171D+02	-0.2539D+03	0.5132D+03	-0.5786D+00	0.1258D+01	-0.1838D+01	0.3814D+06	0.7553D+02	-0.2462D+00	0.6785D+00
P08PC	-0.9776D+01	-0.2120D+03	0.4285D+03	-0.4831D+00	0.1050D+01	-0.1535D+01	0.3184D+06	0.6306D+02	-0.2056D+00	0.5665D+00
PTDEM	0.1330D+01	0.2884D+02	-0.5828D+02	0.6571D-01	-0.1428D+00	0.2088D+00	-0.4331D+05	-0.8578D+01	0.2797D-01	-0.7706D-01
NCROUT04	0.2782D+01	0.6033D+02	-0.1219D+03	0.1375D+00	-0.2988D+00	0.4367D+00	-0.9061D+05	-0.1794D+02	0.5850D-01	-0.1612D+00
GRPOL	-0.4523D+02	-0.9808D+03	0.1982D+04	-0.2235D+01	0.4858D+01	-0.7100D+01	0.1473D+07	0.2917D+03	-0.9511D+00	0.2621D+01
STR813	-0.3267D+03	-0.7086D+04	0.1432D+05	-0.1614D+02	0.3509D+02	-0.5129D+02	0.1064D+08	0.2108D+04	-0.6871D+01	0.1893D+02

STRP	-0.6025D+02	-0.1307D+04	0.2641D+04	-0.2977D+01	0.6471D+01	-0.9459D+01	0.1962D+07	0.3886D+03	-0.1267D+01	0.3491D+01							
STRCUQ	0.1612D+03	0.3495D+04	-0.7064D+04	0.7964D+01	-0.1731D+02	0.2530D+02	-0.5250D+07	-0.1040D+04	0.3389D+01	-0.9340D+01							
GRVOY	0.5832D+03	0.1265D+05	-0.2556D+05	0.2882D+02	-0.6264D+02	0.9156D+02	-0.1900D+08	-0.3762D+04	0.1227D+02	-0.3380D+02							
AUTPKRP	0.3207D+00	0.6955D+01	-0.1406D+02	0.1585D-01	-0.3445D-01	0.5035D-01	-0.1045D+05	-0.2069D+01	0.6744D-02	-0.1858D-01							
GRMUMH	-0.1569D+03	-0.3403D+04	0.6878D+04	-0.7755D+01	0.1686D+02	-0.2464D+02	0.5112D+07	0.1012D+04	-0.3300D+01	0.9094D+01							
TLK822	-0.5344D+03	-0.1159D+05	0.2342D+05	-0.2641D+02	0.5741D+02	-0.8391D+02	0.1741D+08	0.3448D+04	-0.1124D+02	0.3097D+02							
RFK822	-0.8980D+01	-0.1948D+03	0.3936D+03	-0.4438D+00	0.9646D+00	-0.1410D+01	0.2925D+06	0.5793D+02	-0.1889D+00	0.5204D+00							
SFK822	-0.2449D+02	-0.5311D+03	0.1073D+04	-0.1210D+01	0.2631D+01	-0.3845D+01	0.7977D+06	0.1580D+03	-0.5150D+00	0.1419D+01							
CSFMR822	-0.3327D+03	-0.7216D+04	0.1458D+05	-0.1644D+02	0.3574D+02	-0.5224D+02	0.1084D+08	0.2146D+04	-0.6998D+01	0.1928D+02							
LOIIND61	-0.1326D+01	-0.2876D+02	0.5811D+02	-0.6552D-01	0.1424D+00	-0.2082D+00	0.4319D+05	0.8553D+01	-0.2789D-01	0.7684D-01							
LOIAS	-0.1990D+01	-0.4316D+02	0.8721D+02	-0.9833D-01	0.2137D+00	-0.3124D+00	0.6482D+05	0.1284D+02	-0.4185D-01	0.1153D+00							
MOP62	-0.3003D+01	-0.6512D+02	0.1316D+03	-0.1484D+00	0.3225D+00	-0.4714D+00	0.9781D+05	0.1937D+02	-0.6315D-01	0.1740D+00							
PRMVACR1	-0.3711D-03	-0.8049D-02	0.1627D-01	-0.1834D-04	0.3986D-04	-0.5827D-04	0.1209D+02	0.2394D-02	-0.7805D-05	0.2151D-04							
DUM78RAU	0.1475D+02	0.3198D+03	-0.6463D+03	0.7287D+00	-0.1584D+01	0.2315D+01	-0.4803D+06	-0.9512D+02	0.3101D+00	-0.8546D+00							
SED78RAU	-0.6655D+01	-0.1443D+03	0.2917D+03	-0.3288D+00	0.7148D+00	-0.1045D+01	0.2168D+06	0.4293D+02	-0.1400D+00	0.3856D+00							
CONSTA	0.3403D+01	0.7379D+02	-0.1491D+03	0.1681D+00	-0.3655D+00	0.5342D+00	-0.1108D+06	-0.2195D+02	0.7156D-01	-0.1972D+00							
KMPARR1	-0.7479D+09	-0.1622D+11	0.3278D+11	-0.3696D+08	0.8034D+08	-0.1174D+09	0.2436D+14	0.4825D+10	-0.1573D+08	0.4334D+08							
DICR1	-0.4063D+09	-0.8812D+10	0.1781D+11	-0.2008D+08	0.4364D+08	-0.6379D+08	0.1324D+14	0.2621D+10	-0.8545D+07	0.2355D+08							
PGRPKM	-0.1927D+00	-0.4178D+01	0.8444D+01	-0.9521D-02	0.2069D-01	-0.3025D-01	0.6276D+04	0.1243D+01	-0.4052D-02	0.1117D-01							
PDRQ	0.4318D-01	0.9364D+00	-0.1892D+01	0.2134D-02	-0.4638D-02	0.6778D-02	-0.1406D+04	-0.2785D+00	0.9080D-03	-0.2502D-02							
ENTRNMDC	0.2959D+02	0.6416D+03	-0.1297D+04	0.1462D+01	-0.3178D+01	0.4645D+01	-0.9637D+06	-0.1908D+03	0.6222D+00	-0.1715D+01							
PPAS	-0.5521D-01	-0.1197D+01	0.2420D+01	-0.2728D-02	0.5930D-02	-0.8668D-02	0.1798D+04	0.3561D+00	-0.1161D-02	0.3199D-02							
SURPOL	-0.1539D+02	-0.3337D+03	0.6745D+03	-0.7604D+00	0.1653D+01	-0.2416D+01	0.5013D+06	0.9927D+02	-0.3236D+00	0.8918D+00							
PERPA	0.1000D+01	0.2169D+02	-0.4383D+02	0.4942D-01	-0.1074D+00	0.1570D+00	-0.3257D+05	-0.6451D+01	0.2103D-01	-0.5795D-01							
PRCHOM	0.4611D-01	0.1000D+01	-0.2021D+01	0.2279D-02	-0.4953D-02	0.7239D-02	-0.1502D+04	-0.2974D+00	0.9697D-03	-0.2672D-02							
PRFEVM	-0.2282D-01	-0.4948D+00	0.1000D+01	-0.1127D-02	0.2451D-02	-0.3582D-02	0.7432D+03	0.1472D+00	-0.4798D-03	0.1322D-02							
HEUHM	0.2024D+02	0.4389D+03	-0.8869D+03	0.1000D+01	-0.2174D+01	0.3177D+01	-0.6592D+06	-0.1305D+03	0.4256D+00	-0.1173D+01							
PRMED	-0.9310D+01	-0.2019D+03	0.4080D+03	-0.4600D+00	0.1000D+01	-0.1462D+01	0.3032D+06	0.6005D+02	-0.1958D+00	0.5395D+00							
PRALT	0.6369D+01	0.1381D+03	-0.2792D+03	0.3148D+00	-0.6842D+00	0.1000D+01	-0.2075D+06	-0.4109D+02	0.1340D+00	-0.3691D+00							
PRMTRAR1	-0.3070D-04	-0.6658D-03	0.1346D-02	-0.1517D-05	0.3298D-05	-0.4820D-05	0.1000D+01	0.1980D-03	-0.6456D-06	0.1779D-05							
PRMMAGR1	-0.1550D+00	-0.3362D+01	0.6795D+01	-0.7661D-02	0.1665D-01	-0.2434D-01	0.5050D+04	0.1000D+01	-0.3260D-02	0.8984D-02							
DMSR	0.4755D+02	0.1031D+04	-0.2084D+04	0.2350D+01	-0.5107D+01	0.7465D+01	-0.1549D+07	-0.3067D+03	0.1000D+01	-0.2756D+01							
WD	-0.1726D+02	-0.3742D+03	0.7563D+03	-0.8527D+00	0.1854D+01	-0.2709D+01	0.5621D+06	0.1113D+03	-0.3629D+00	0.1000D+01							
SAT	-0.9595D+01	-0.2081D+03	0.4205D+03	-0.4741D+00	0.1031D+01	-0.1506D+01	0.3125D+06	0.6189D+02	-0.2018D+00	0.5560D+00							
SHD	-0.9445D+01	-0.2048D+03	0.4140D+03	-0.4667D+00	0.1014D+01	-0.1483D+01	0.3076D+06	0.6092D+02	-0.1986D+00	0.5473D+00							
constant	-0.1392D-01	-0.3019D+00	0.6101D+00	-0.6879D-03	0.1495D-02	-0.2186D-02	0.4534D+03	0.8980D-01	-0.2928D-03	0.8067D-03							
=====																	
X(k)	SAT	SHD	constant														
=====																	
X(l)																	
=====																	
DISCEIN	0.5048D-01	0.5129D-01	0.3480D+02														
LVCEI	0.1220D+01	0.1240D+01	0.8411D+03														
P08PC	0.1019D+01	0.1035D+01	0.7023D+03														
PTDEM	-0.1386D+00	-0.1408D+00	-0.9553D+02														
NCRROUT04	-0.2899D+00	-0.2945D+00	-0.1998D+03														
GRPOL	0.4714D+01	0.4788D+01	0.3249D+04														
STR813	0.3405D+02	0.3459D+02	0.2347D+05														
STRP	0.6279D+01	0.6379D+01	0.4328D+04														
STRCUQ	-0.1680D+02	-0.1706D+02	-0.1158D+05														
GRVOY	-0.6078D+02	-0.6175D+02	-0.4190D+05														
AUTPKRP	-0.3342D-01	-0.3395D-01	-0.2304D+02														
GRMUMH	0.1636D+02	0.1662D+02	0.1127D+05														

TLK822	0.5570D+02	0.5659D+02	0.3839D+05
RFK822	0.9359D+00	0.9508D+00	0.6451D+03
SFK822	0.2552D+01	0.2593D+01	0.1759D+04
CSFMR822	0.3468D+02	0.3523D+02	0.2390D+05
LOIIND61	0.1382D+00	0.1404D+00	0.9525D+02
LOIAS	0.2074D+00	0.2107D+00	0.1429D+03
MOP62	0.3129D+00	0.3179D+00	0.2157D+03
PRMVACR1	0.3868D-04	0.3929D-04	0.2666D-01
DUM78RAU	-0.1537D+01	-0.1561D+01	-0.1059D+04
SED78RAU	0.6936D+00	0.7046D+00	0.4780D+03
CONSTA	-0.3546D+00	-0.3603D+00	-0.2444D+03
KMPARR1	0.7795D+08	0.7919D+08	0.5373D+11
DICR1	0.4235D+08	0.4302D+08	0.2919D+11
PGRPKM	0.2008D-01	0.2040D-01	0.1384D+02
PDRQ	-0.4500D-02	-0.4571D-02	-0.3102D+01
ENTRNMD	-0.3084D+01	-0.3133D+01	-0.2125D+04
PPAS	0.5754D-02	0.5846D-02	0.3966D+01
SURPOL	0.1604D+01	0.1629D+01	0.1105D+04
PERPA	-0.1042D+00	-0.1059D+00	-0.7184D+02
PRCHOM	-0.4806D-02	-0.4882D-02	-0.3312D+01
PRFEVM	0.2378D-02	0.2416D-02	0.1639D+01
HEUHM	-0.2109D+01	-0.2143D+01	-0.1454D+04
PRMED	0.9703D+00	0.9857D+00	0.6688D+03
PRALT	-0.6638D+00	-0.6744D+00	-0.4576D+03
PRMTRAR1	0.3200D-05	0.3251D-05	0.2205D-02
PRMMAGR1	0.1616D-01	0.1641D-01	0.1114D+02
DMSR	-0.4956D+01	-0.5035D+01	-0.3416D+04
WD	0.1798D+01	0.1827D+01	0.1240D+04
SAT	0.1000D+01	0.1016D+01	0.6893D+03
SHD	0.9843D+00	0.1000D+01	0.6785D+03
constant	0.1451D-02	0.1474D-02	0.1000D+01

Log-likelihood

- initial value :	-2515.6725
- final value :	-2421.5333
- ratio test :	188.2785

Pearson-r2 :	0.9570
Pearson-r2 bar :	0.9479
Pseudo-(1)-r2 :	0.9785
Pseudo-(1)-r2 bar :	0.9739
Std-error of (w) :	0.5668

Number of observations	first-last obs.no.
- sample : 313	1 - 313
- estimation : 300	14 - 313

CPU TIME: 1.73 sec

Output file 8: MBC_bc2au.txt

```

&CARD1
NOBS   =      313,
NC      =      14,
NF      =      313,
NFP     =      313,
NOBEL   =      12,
NM       =      0,
NSTEP   =      500,
EPSI    = 1.000000000000000E-007,
WGHT    = 1.000000000000000
/
&CARD2
NB      =      38,
NRO     =      3,
NSL     =      20,
NGF     =      0,
MAXF    =      0,
NGV     =      1,
MAXV    =      18,
NLY     =      1,
NDM     =     -1,
NLE     =      0,
ND       =      0
/
&CARD3
NCOR    =      0,
NRES    =      0,
NFW     =      0,
NGUVW   =      0,
NPDQL   =      0,
NCOV    =      0,
NEY     =      0,
VARNAME = mb_bc2au ,
N VARIANT =      45
/

```

Working space used : 31592 out of 500000

```

autocorrelation of orders:      4      6      10
rho initial values: 0.000000000000000E+000 0.000000000000000E+000
0.000000000000000E+000

```

```

group (x) without box-cox transformation
variable no.
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

```

```

group      1 (estimated lambda(x))
initial value: 1.000000000000000
variable no.
 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

```

```

lambda(y) initial value: 1.000000000000000
upper limit for y 0.000000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	MBC	0.11327D+01	0.13919D+01	0.20371D+01	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
22	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
23	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
24	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	PFAS	0.10000D+00	0.15846D+00	0.26970D+00	0
27	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
28	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
29	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
30	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
31	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
32	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
33	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
34	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
35	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0

36	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
37	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
38	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
39	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y(sample)	E(y)	y(sample)	E(y)
								SIGMA(y)		SIGMA(y)
								GAMMA(y)		GAMMA(y)
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	0.5183798D-01	0.4581333D+00	0.8611949D-01	0.6019	0.0170	0.0170	0.0386	0.0387
								0.0000		0.0000
								0.0511		0.1165
2 LVCEI	NL	0	0.1272361D-01	0.2558333D+00	0.2411703D-01	0.5276	0.0023	0.0023	0.0095	0.0095
								0.0000		0.0000
								0.0070		0.0286
3 P08PC	NL	0	-0.1559404D-01	0.5233333D+00	0.2522064D-01	-0.6183	-0.0058	-0.0058	-0.0116	-0.0117
								0.0000		0.0000
								-0.0176		-0.0351
4 PTDEM	NL	0	-0.2814464D-01	0.3933333D+00	0.2886234D-01	-0.9751	-0.0079	-0.0079	-0.0210	-0.0210
								0.0000		0.0000
								-0.0238		-0.0633
5 NCR0UT04	NL	0	-0.2815543D-01	0.3000000D-01	0.3719686D-01	-0.7569	-0.0006	-0.0006	-0.0157	-0.0158
								0.0000		0.0000
								-0.0018		-0.0475
6 GRPOL	NL	0	0.1391740D-01	0.1055554D-01	0.2465054D-01	0.5646	0.0001	0.0001	0.0000	0.0000
								0.0000		0.0000
								0.0003		0.0000
7 STR813	NL	0	-0.1030295D-02	0.4733333D+00	0.1460244D-02	-0.7056	-0.0003	-0.0003	-0.0008	-0.0008
								0.0000		0.0000
								-0.0010		-0.0025
8 STRP	NL	0	-0.1708788D-02	0.1266667D+00	0.2716939D-02	-0.6289	-0.0002	-0.0002	-0.0008	-0.0009
								0.0000		0.0000
								-0.0005		-0.0026
9 STRCUQ	NL	0	0.1375396D-02	0.1300000D+01	0.7216386D-03	1.9059	0.0013	0.0013	0.0013	0.0013
								0.0000		0.0000
								0.0038		0.0039
10 GRVOY	NL	0	-0.7349972D-03	0.7900000D+00	0.8351839D-03	-0.8800	-0.0004	-0.0004	0.0000	0.0000
								0.0000		0.0000
								-0.0013		0.0000
11 AUTPKRP	NL	0	-0.3333589D+00	0.3251368D+00	0.1889944D+00	-1.7639	-0.0776	-0.0776	-0.1276	-0.1280
								0.0000		0.0000
								-0.2333		-0.3851
12 GRMUMH	NL	0	0.9156461D-03	0.1716667D+00	0.1939430D-02	0.4721	0.0001	0.0001	0.0000	0.0000
								0.0000		0.0000
								0.0003		0.0000
13 TLK822	NL	0	0.1280099D-03	0.1928373D+03	0.4700750D-04	2.7232	0.0177	0.0177	0.0180	0.0180
								0.0000		0.0000
								0.0531		0.0542
14 RFK822	NL	0	0.1533729D-01	0.7708521D+00	0.8692610D-02	1.7644	0.0085	0.0085	0.0087	0.0087
								0.0000		0.0000
								0.0255		0.0261
15 SFK822	NL	0	0.4095755D-03	0.2509268D+01	0.1859150D-02	0.2203	0.0007	0.0007	0.0005	0.0005
								0.0000		0.0000
								0.0022		0.0015
16 CSFMR822	NL	0	0.1180232D-03	0.2353299D+02	0.2487924D-03	0.4744	0.0020	0.0020	0.0018	0.0018
								0.0000		0.0000
								0.0060		0.0053
17 LOIIND61	NL	0	-0.6469228D-01	0.8600000D+00	0.2402127D-01	-2.6931	-0.0398	-0.0398	-0.0482	-0.0484
								0.0000		0.0000
								-0.1198		-0.1454
18 LOIAS	NL	0	-0.5862087D-02	0.1933333D+00	0.2630317D-01	-0.2229	-0.0008	-0.0008	-0.0044	-0.0044
								0.0000		0.0000
								-0.0024		-0.0132
19 MOP62	NL	0	0.3164742D-01	0.8200000D+00	0.2523529D-01	1.2541	0.0186	0.0186	0.0236	0.0237
								0.0000		0.0000
								0.0559		0.0712
20 PRMVACR1	NL	0	0.9465551D+02	0.4349227D-04	0.1510298D+03	0.6267	0.0029	0.0029	0.0035	0.0035
								0.0000		0.0000
								0.0089		0.0105
21 KMPARR1	EL	1	0.1408983D-10	0.2620907D+10	0.6027800D-10	0.2337	0.0264	0.0264	0.0323	0.0324
								0.0000		0.0000
								0.0795		0.0976
22 DICR1	EL	1	-0.1643575D-09	0.6151215D+08	0.3975751D-09	-0.4134	-0.0072	-0.0072	-0.0130	-0.0130
								0.0000		0.0000
								-0.0218		-0.0392
23 PGRPKM	EL	1	0.8023090D+00	0.1602677D-01	0.5709035D+01	0.1405	0.0092	0.0092	0.0155	0.0156
								0.0000		0.0000
								0.0277		0.0469
24 PDRQ	EL	1	0.6562937D+00	0.9268908D-01	0.1434027D+01	0.4577	0.0436	0.0436	0.0734	0.0736
								0.0000		0.0000
								0.1310		0.2213
25 ENTRNMDC	EL	1	-0.2394121D-03	0.6295400D+02	0.1864015D-02	-0.1284	-0.0108	-0.0108	-0.0144	-0.0144
								0.0000		0.0000
								-0.0324		-0.0434
26 PPAS	EL	1	0.1001802D+01	0.1609208D+00	0.1244136D+01	0.8052	0.1154	0.1154	0.1944	0.1950
								0.0000		0.0001
								0.3471		0.5866
27 SURPOL	EL	1	0.1115142D-01	0.8257199D+01	0.6515726D-02	1.7115	0.0659	0.0659	0.0640	0.0642
								0.0000		0.0000
								0.1982		0.1931
28 PERPA	EL	1	-0.3745111D+00	0.1297782D+01	0.1048615D+00	-3.5715	-0.3480	-0.3480	-0.4055	-0.4067
								-0.0001		-0.0002
								-1.0464		-1.2233
29 PRCHOM	EL	1	-0.1994957D+01	0.3883502D-01	0.6322742D+00	-3.1552	-0.0555	-0.0555	-0.0852	-0.0854
								0.0000		0.0000
								-0.1668		-0.2570

30	PRFEVM	EL	1	0.6338329D+00	0.1139801D-01	0.8767432D+01	0.0723	0.0052	0.0052	0.0049	0.0050
									0.0000		0.0000
									0.0156		0.0149
31	HEUHM	EL	1	0.4260510D-02	0.4031700D+02	0.6600069D-02	0.6455	0.1230	0.1230	0.1202	0.1206
									0.0001		0.0000
									0.3698		0.3627
32	PRMED	EL	1	0.4806080D-02	0.3003970D+01	0.1525208D-01	0.3151	0.0103	0.0103	0.0133	0.0133
									0.0000		0.0000
									0.0311		0.0400
33	PRALT	EL	1	0.7789032D-01	0.7172662D+00	0.5687206D-01	1.3696	0.0400	0.0400	0.0447	0.0448
									0.0000		0.0000
									0.1203		0.1348
34	PRMTRARI	EL	1	0.6585754D+03	0.5226830D-04	0.2313201D+04	0.2847	0.0246	0.0246	0.0210	0.0211
									0.0000		0.0000
									0.0741		0.0633
35	PRMMAGRI	EL	1	-0.8394635D+00	0.1441229D+00	0.4657212D+00	-1.8025	-0.0866	-0.0866	-0.0952	-0.0954
									0.0000		0.0000
									-0.2605		-0.2871
36	WD	EL	1	0.1327463D-01	0.2086000D+02	0.5508855D-02	2.4097	0.1983	0.1983	0.2077	0.2084
									0.0001		0.0001
									0.5962		0.6267
37	SAT	EL	1	0.2156925D-01	0.4346667D+01	0.8854323D-02	2.4360	0.0671	0.0671	0.0697	0.0699
									0.0000		0.0000
									0.2018		0.2101
38	SHD	EL	1	0.1716015D-01	0.5226667D+01	0.6520603D-02	2.6317	0.0642	0.0642	0.0650	0.0652
									0.0000		0.0000
									0.1931		0.1961
39	constant	NL	0	0.6586961D+03	0.1000000D+01	0.2314540D+04	0.2846	471.5999	471.6001	490.8545	492.3414
									0.1970		0.1887
									1418.1070		1480.8949

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.5183798D-01	0.5183795D-01	0.8022097D-06	-0.1253233D-02
2 LVCEI	0.1272361D-01	0.1272361D-01	0.1969021D-06	-0.3076055D-03
3 P08PC	-0.1559404D-01	-0.1559404D-01	-0.2413229D-06	0.3770010D-03
4 PTDEM	-0.2814464D-01	-0.2814462D-01	-0.4355475D-06	0.6804236D-03
5 NCROUT04	-0.2815543D-01	-0.2815542D-01	-0.4357145D-06	0.6806846D-03
6 GRPOL	0.1391740D-01	0.1391739D-01	0.2153762D-06	-0.3364664D-03
7 STR813	-0.1030295D-02	-0.1030294D-02	-0.1594415D-07	0.2490837D-04
8 STRP	-0.1708788D-02	-0.1708787D-02	-0.2644405D-07	0.4131159D-04
9 STRCUQ	0.1375396D-02	0.1375395D-02	0.2128471D-07	-0.3325152D-04
10 GRVOY	-0.7349972D-03	-0.7349968D-03	-0.1137432D-07	0.1776926D-04
11 AUTPKRP	-0.3333589D+00	-0.3333587D+00	-0.5158838D-05	0.8059272D-02
12 GRMUMH	0.9156461D-03	0.9156456D-03	0.1416992D-07	-0.2213662D-04
13 TLK822	0.1280099D-03	0.1280099D-03	0.1980995D-08	-0.3094763D-05
14 RFK822	0.1533729D-01	0.1533728D-01	0.2373495D-06	-0.3707936D-03
15 SFK822	0.4095755D-03	0.4095752D-03	0.6338314D-08	-0.9901879D-05
16 CSFMR822	0.1180232D-03	0.1180231D-03	0.1826448D-08	-0.2853324D-05
17 LOIIND61	-0.6469228D-01	-0.6469224D-01	-0.1001134D-05	0.1563998D-02
18 LOIAS	-0.5862087D-02	-0.5862083D-02	-0.9071770D-07	0.1417216D-03
19 MOP62	0.3164742D-01	0.3164741D-01	0.4897542D-06	-0.7651068D-03
20 PRMVACRI	0.9465551D+02	0.9465546D+02	0.1464825D-02	-0.2288388D+01
21 KMPARR1	0.1408983D-10	0.1408982D-10	0.2180447D-15	-0.3406351D-12
22 DICR1	-0.1643575D-09	-0.1643574D-09	-0.2543486D-14	0.3973501D-11
23 PGRPKM	0.8023090D+00	0.8023085D+00	0.1241599D-04	-0.1939659D-01
24 PDRQ	0.6562937D+00	0.6562934D+00	0.1015636D-04	-0.1586653D-01
25 ENTRNMDC	-0.2394121D-03	-0.2394120D-03	-0.3704981D-08	0.5788017D-05
26 PPAS	0.1001802D+01	0.1001802D+01	0.1550322D-04	-0.2421953D-01
27 SURPOL	0.1115142D-01	0.1115142D-01	0.1725719D-06	-0.2695964D-03
28 PERPA	-0.3745111D+00	-0.3745109D+00	-0.5795682D-05	0.9054165D-02
29 PRCHOM	-0.1994957D+01	-0.1994955D+01	-0.3087261D-04	0.4822999D-01

30	PRFEVM	0.6338329D+00	0.6338326D+00	0.9808772D-05	-0.1532352D-01
31	HEUHM	0.4260510D-02	0.4260508D-02	0.6593279D-07	-0.1030019D-03
32	PRMED	0.4806080D-02	0.4806077D-02	0.7437566D-07	-0.1161916D-03
33	PRALT	0.7789032D-01	0.7789028D-01	0.1205378D-05	-0.1883073D-02
34	PRMTRARI	0.6585754D+03	0.6585751D+03	0.1019167D-01	-0.1592169D+02
35	PRMMAGR1	-0.8394635D+00	-0.8394630D+00	-0.1299097D-04	0.2029483D-01
36	WD	0.1327463D-01	0.1327462D-01	0.2054292D-06	-0.3209268D-03
37	SAT	0.2156925D-01	0.2156923D-01	0.3337911D-06	-0.5214572D-03
38	SHD	0.1716015D-01	0.1716014D-01	0.2655590D-06	-0.4148631D-03
39	constant	0.6586961D+03	0.6586957D+03	0.1019354D-01	-0.1592461D+02

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.6462D+05	-0.4136D+02
SIGMA(y)	0.1548D-04	0.1000D+01	-0.6401D-03
GAMMA(y)	-0.2418D-01	-0.1562D+04	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2394D+04	0.3326D+00
SIGMA(y)	0.4177D-03	0.1000D+01	0.1389D-03
GAMMA(y)	0.3007D+01	0.7198D+04	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.2454D+00	-0.3008D+00	-0.5429D+00	-0.5431D+00	0.2685D+00	-0.1988D-01	-0.3296D-01	0.2653D-01	-0.1418D-01
LVCEI		0.4074D+01	0.1000D+01	-0.1226D+01	-0.2212D+01	-0.2213D+01	0.1094D+01	-0.8098D-01	-0.1343D+00	0.1081D+00	-0.5777D-01
P08PC		-0.3324D+01	-0.8159D+00	0.1000D+01	0.1805D+01	0.1806D+01	-0.8925D+00	0.6607D-01	0.1096D+00	-0.8820D-01	0.4713D-01
PTDEM		-0.1842D+01	-0.4521D+00	0.5541D+00	0.1000D+01	0.1000D+01	-0.4945D+00	0.3661D-01	0.6071D-01	-0.4887D-01	0.2611D-01
NCROUT04		-0.1841D+01	-0.4519D+00	0.5539D+00	0.9996D+00	0.1000D+01	-0.4943D+00	0.3659D-01	0.6069D-01	-0.4885D-01	0.2610D-01
GRPOL		0.3725D+01	0.9142D+00	-0.1120D+01	-0.2022D+01	-0.2023D+01	0.1000D+01	-0.7403D-01	-0.1228D+00	0.9883D-01	-0.5281D-01
STR813		-0.5031D+02	-0.1235D+02	0.1514D+02	0.2732D+02	0.2733D+02	-0.1351D+02	0.1000D+01	0.1659D+01	-0.1335D+01	0.7134D+00
STRP		-0.3034D+02	-0.7446D+01	0.9126D+01	0.1647D+02	0.1648D+02	-0.8145D+01	0.6029D+00	0.1000D+01	-0.8049D+00	0.4301D+00
STRCUQ		0.3769D+02	0.9251D+01	-0.1134D+02	-0.2046D+02	-0.2047D+02	0.1012D+02	-0.7491D+00	-0.1242D+01	0.1000D+01	-0.5344D+00
GRVOY		-0.7053D+02	-0.1731D+02	0.2122D+02	0.3829D+02	0.3831D+02	-0.1894D+02	0.1402D+01	0.2325D+01	-0.1871D+01	0.1000D+01
AUTPKRP		-0.1555D+00	-0.3817D-01	0.4678D-01	0.8443D-01	0.8446D-01	-0.4175D-01	0.3091D-02	0.5126D-02	-0.4126D-02	0.2205D-02
GRMUMH		0.5661D+02	0.1390D+02	-0.1703D+02	-0.3074D+02	-0.3075D+02	0.1520D+02	-0.1125D+01	-0.1866D+01	0.1502D+01	-0.8027D+00
TLK822		0.4050D+03	0.9940D+02	-0.1218D+03	-0.2199D+03	-0.2199D+03	0.1087D+03	-0.8049D+01	-0.1335D+02	0.1074D+02	-0.5742D+01
RFK822		0.3380D+01	0.8296D+00	-0.1017D+01	-0.1835D+01	-0.1836D+01	0.9074D+00	-0.6718D-01	-0.1114D+00	0.8968D-01	-0.4792D-01
SFK822		0.1266D+03	0.3107D+02	-0.3807D+02	-0.6872D+02	-0.6874D+02	0.3398D+02	-0.2516D+01	-0.4172D+01	0.3358D+01	-0.1795D+01
CSFMR822		0.4392D+03	0.1078D+03	-0.1321D+03	-0.2385D+03	-0.2386D+03	0.1179D+03	-0.8730D+01	-0.1448D+02	0.1165D+02	-0.6228D+01
LOIIND61		-0.8013D+00	-0.1967D+00	0.2410D+00	0.4351D+00	0.4352D+00	-0.2151D+00	0.1593D-01	0.2641D-01	-0.2126D-01	0.1136D-01
LOIAS		-0.8843D+01	-0.2170D+01	0.2660D+01	0.4801D+01	0.4803D+01	-0.2374D+01	0.1758D+00	0.2915D+00	-0.2346D+00	0.1254D+00
MOP62		0.1638D+01	0.4020D+00	-0.4927D+00	-0.8893D+00	-0.8897D+00	0.4398D+00	-0.3256D-01	-0.5399D-01	0.4346D-01	-0.2322D-01
PRMVACR1		0.5476D-03	0.1344D-03	-0.1647D-03	-0.2973D-03	-0.2975D-03	0.1470D-03	-0.1088D-04	-0.1805D-04	0.1453D-04	-0.7765D-05
KMPARR1		0.3679D+10	0.9030D+09	-0.1107D+10	-0.1998D+10	-0.1998D+10	0.9878D+09	-0.7312D+08	-0.1213D+09	0.9762D+08	-0.5217D+08
DICR1		-0.3154D+09	-0.7741D+08	0.9488D+08	0.1712D+09	0.1713D+09	-0.8468D+08	0.6269D+07	0.1040D+08	-0.8368D+07	0.4472D+07
PGRPKM		0.6461D-01	0.1586D-01	-0.1944D-01	-0.3508D-01	-0.3509D-01	0.1735D-01	-0.1284D-02	-0.2130D-02	0.1714D-02	-0.9161D-03

PDRQ	0.7899D-01	0.1939D-01	-0.2376D-01	-0.4288D-01	-0.4290D-01	0.2121D-01	-0.1570D-02	-0.2604D-02	0.2096D-02	-0.1120D-02	
ENTRNMDC	-0.2165D+03	-0.5315D+02	0.6513D+02	0.1176D+03	0.1176D+03	-0.5813D+02	0.4303D+01	0.7137D+01	-0.5745D+01	0.3070D+01	
PPAS	0.5174D-01	0.1270D-01	-0.1557D-01	-0.2809D-01	-0.2810D-01	0.1389D-01	-0.1028D-02	-0.1706D-02	0.1373D-02	-0.7337D-03	
SURPOL	0.4649D+01	0.1141D+01	-0.1398D+01	-0.2524D+01	-0.2525D+01	0.1248D+01	-0.9239D-01	-0.1532D+00	0.1233D+00	-0.6591D-01	
PERPA	-0.1384D+00	-0.3397D-01	0.4164D-01	0.7515D-01	0.7518D-01	-0.3716D-01	0.2751D-02	0.4563D-02	-0.3673D-02	0.1963D-02	
PRCHOM	-0.2598D-01	-0.6378D-02	0.7817D-02	0.1411D-01	0.1411D-01	-0.6976D-02	0.5164D-03	0.8566D-03	-0.6894D-03	0.3684D-03	
PRFEVM	0.8178D-01	0.2007D-01	-0.2460D-01	-0.4440D-01	-0.4442D-01	0.2196D-01	-0.1625D-02	-0.2696D-02	0.2170D-02	-0.1160D-02	
HEUHM	0.1217D+02	0.2986D+01	-0.3660D+01	-0.6606D+01	-0.6608D+01	0.3267D+01	-0.2418D+00	-0.4011D+00	0.3228D+00	-0.1725D+00	
PRMED	0.1079D+02	0.2647D+01	-0.3245D+01	-0.5856D+01	-0.5858D+01	0.2896D+01	-0.2144D+00	-0.3555D+00	0.2862D+00	-0.1529D+00	
PRALT	0.6655D+00	0.1634D+00	-0.2002D+00	-0.3613D+00	-0.3615D+00	0.1787D+00	-0.1323D-01	-0.2194D-01	0.1766D-01	-0.9436D-02	
PRMTRAR1	0.7871D-04	0.1932D-04	-0.2368D-04	-0.4274D-04	-0.4275D-04	0.2113D-04	-0.1564D-05	-0.2595D-05	0.2088D-05	-0.1116D-05	
PRMMAGR1	-0.6175D-01	-0.1516D-01	0.1858D-01	0.3353D-01	0.3354D-01	-0.1658D-01	0.1227D-02	0.2036D-02	-0.1638D-02	0.8756D-03	
WD	0.3905D+01	0.9585D+00	-0.1175D+01	-0.2120D+01	-0.2121D+01	0.1048D+01	-0.7761D-01	-0.1287D+00	0.1036D+00	-0.5537D-01	
SAT	0.2403D+01	0.5899D+00	-0.7230D+00	-0.1305D+01	-0.1305D+01	0.6452D+00	-0.4777D-01	-0.7922D-01	0.6377D-01	-0.3408D-01	
SHD	0.3021D+01	0.7415D+00	-0.9087D+00	-0.1640D+01	-0.1641D+01	0.8110D+00	-0.6004D-01	-0.9958D-01	0.8015D-01	-0.4283D-01	
constant	0.7870D-04	0.1932D-04	-0.2367D-04	-0.4273D-04	-0.4274D-04	0.2113D-04	-0.1564D-05	-0.2594D-05	0.2088D-05	-0.1116D-05	
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
=====											
DISCEIN	-0.6431D+01	0.1766D-01	0.2469D-02	0.2959D+00	0.7901D-02	0.2277D-02	-0.1248D+01	-0.1131D+00	0.6105D+00	0.1826D+04	
LVCEI	-0.2620D+02	0.7196D-01	0.1006D-01	0.1205D+01	0.3219D-01	0.9276D-02	-0.5084D+01	-0.4607D+00	0.2487D+01	0.7439D+04	
P08PC	0.2138D+02	-0.5872D-01	-0.8209D-02	-0.9835D+00	-0.2626D-01	-0.7568D-02	0.4149D+01	0.3759D+00	-0.2029D+01	-0.6070D+04	
PTDEM	0.1184D+02	-0.3253D-01	-0.4548D-02	-0.5449D+00	-0.1455D-01	-0.4193D-02	0.2299D+01	0.2083D+00	-0.1124D+01	-0.3363D+04	
NCROUT04	0.1184D+02	-0.3252D-01	-0.4547D-02	-0.5447D+00	-0.1455D-01	-0.4192D-02	0.2298D+01	0.2082D+00	-0.1124D+01	-0.3362D+04	
GRPOL	-0.2395D+02	0.6579D-01	0.9198D-02	0.1102D+01	0.2943D-01	0.8480D-02	-0.4648D+01	-0.4212D+00	0.2274D+01	0.6801D+04	
STR813	0.3236D+03	-0.8887D+00	-0.1242D+00	-0.1489D+02	-0.3975D+00	-0.1146D+00	0.6279D+02	0.5690D+01	-0.3072D+02	-0.9187D+05	
STRP	0.1951D+03	-0.5358D+00	-0.7491D-01	-0.8976D+01	-0.2397D+00	-0.6907D-01	0.3786D+02	0.3431D+01	-0.1852D+02	-0.5539D+05	
STRCUQ	-0.2424D+03	0.6657D+00	0.9307D-01	0.1115D+02	0.2978D+00	0.8581D-01	-0.4704D+02	-0.4262D+01	0.2301D+02	0.6882D+05	
GRVOY	0.4536D+03	-0.1246D+01	-0.1742D+00	-0.2087D+02	-0.5572D+00	-0.1606D+00	0.8802D+02	0.7976D+01	-0.4306D+02	-0.1288D+06	
AUTPKRP	0.1000D+01	-0.2747D-02	-0.3840D-03	-0.4601D-01	-0.1229D-02	-0.3540D-03	0.1941D+00	0.1758D-01	-0.9493D-01	-0.2839D+03	
GRMUMH	-0.3641D+03	0.1000D+01	0.1398D+00	0.1675D+02	0.4473D+00	0.1289D+00	-0.7065D+02	-0.6402D+01	0.3456D+02	0.1034D+06	
TLK822	-0.2604D+04	0.7153D+01	0.1000D+01	0.1198D+03	0.3200D+01	0.9220D+00	-0.5054D+03	-0.4579D+02	0.2472D+03	0.7394D+06	
RFK822	-0.2174D+02	0.5970D-01	0.8346D-02	0.1000D+01	0.2670D-01	0.7695D-02	-0.4218D+01	-0.3822D+00	0.2063D+01	0.6172D+04	
SFK822	-0.8139D+03	0.2236D+01	0.3125D+00	0.3745D+02	0.1000D+01	0.2882D+00	-0.1579D+03	-0.1431D+02	0.7727D+02	0.2311D+06	
CSFMR822	-0.2825D+04	0.7758D+01	0.1085D+01	0.1300D+03	0.3470D+01	0.1000D+01	-0.5481D+03	-0.4967D+02	0.2681D+03	0.8020D+06	
LOIIND61	0.5153D+01	-0.1415D-01	-0.1979D-02	-0.2371D+00	-0.6331D-02	-0.1824D-02	0.1000D+01	0.9061D-01	-0.4892D+00	-0.1463D+04	
LOIAS	0.5687D+02	-0.1562D+00	-0.2184D-01	-0.2616D+01	-0.6987D-01	-0.2013D-01	0.1104D+02	0.1000D+01	-0.5399D+01	-0.1615D+05	
MOP62	-0.1053D+02	0.2893D-01	0.4045D-02	0.4846D+00	0.1294D-01	0.3729D-02	-0.2044D+01	-0.1852D+00	0.1000D+01	0.2991D+04	
PRMVACR1	-0.3522D-02	0.9673D-05	0.1352D-05	0.1620D-03	0.4327D-05	0.1247D-05	-0.6834D-03	-0.6193D-04	0.3343D-03	0.1000D+01	
KMPARR1	-0.2366D+11	0.6499D+08	0.9085D+07	0.1089D+10	0.2907D+08	0.8376D+07	-0.4591D+10	-0.4161D+09	0.2246D+10	0.6718D+13	
DICR1	0.2028D+10	-0.5571D+07	-0.7789D+06	-0.9332D+08	-0.2492D+07	-0.7181D+06	0.3936D+09	0.3567D+08	-0.1926D+09	-0.5759D+12	
PGRPKM	-0.4155D+00	0.1141D-02	0.1596D-03	0.1912D-01	0.5105D-03	0.1471D-03	-0.8063D-01	-0.7307D-02	0.3945D-01	0.1180D+03	
PDRQ	-0.5079D+00	0.1395D-02	0.1950D-03	0.2337D-01	0.6241D-03	0.1798D-03	-0.9857D-01	-0.8932D-02	0.4822D-01	0.1442D+03	
ENTRNMDC	0.1392D+04	-0.3825D+01	-0.5347D+00	-0.6406D+02	-0.1711D+01	-0.4930D+00	0.2702D+03	0.2449D+02	-0.1322D+03	-0.3954D+06	
PPAS	-0.3328D+00	0.9140D-03	0.1278D-03	0.1531D-01	0.4088D-03	0.1178D-03	-0.6458D-01	-0.5852D-02	0.3159D-01	0.9449D+02	
SURPOL	-0.2989D+02	0.8211D-01	0.1148D-01	0.1375D+01	0.3673D-01	0.1058D-01	-0.5801D+01	-0.5257D+00	0.2838D+01	0.8488D+04	
PERPA	0.8901D+00	-0.2445D-02	-0.3418D-03	-0.4095D-01	-0.1094D-02	-0.3151D-03	0.1727D+00	0.1565D-01	-0.8450D-01	-0.2527D+03	
PRCHOM	0.1671D+00	-0.4590D-03	-0.6417D-04	-0.7688D-02	-0.2053D-03	-0.5916D-04	0.3243D-01	0.2938D-02	-0.1586D-01	-0.4745D+02	
PRFEVM	-0.5259D+00	0.1445D-02	0.2020D-03	0.2420D-01	0.6462D-03	0.1862D-03	-0.1021D+00	-0.9249D-02	0.4993D-01	0.1493D+03	
HEUHM	-0.7824D+02	0.2149D+00	0.3005D-01	0.3600D+01	0.9613D-01	0.2770D-01	-0.1518D+02	-0.1376D+01	0.7428D+01	0.2222D+05	
PRMED	-0.6936D+02	0.1905D+00	0.2663D-01	0.3191D+01	0.8522D-01	0.2456D-01	-0.1346D+02	-0.1220D+01	0.6585D+01	0.1969D+05	

PRALT	-0.4280D+01	0.1176D-01	0.1643D-02	0.1969D+00	0.5258D-02	0.1515D-02	-0.8306D+00	-0.7526D-01	0.4063D+00	0.1215D+04	
PRMTRAR1	-0.5062D-03	0.1390D-05	0.1944D-06	0.2329D-04	0.6219D-06	0.1792D-06	-0.9823D-04	-0.8901D-05	0.4805D-04	0.1437D+00	
PRMMAGR1	0.3971D+00	-0.1091D-02	-0.1525D-03	-0.1827D-01	-0.4879D-03	-0.1406D-03	0.7706D-01	0.6983D-02	-0.3770D-01	-0.1128D+03	
WD	-0.2511D+02	0.6898D-01	0.9643D-02	0.1155D+01	0.3085D-01	0.8891D-02	-0.4873D+01	-0.4416D+00	0.2384D+01	0.7131D+04	
SAT	-0.1546D+02	0.4245D-01	0.5935D-02	0.7111D+00	0.1899D-01	0.5472D-02	-0.2999D+01	-0.2718D+00	0.1467D+01	0.4388D+04	
SHD	-0.1943D+02	0.5336D-01	0.7460D-02	0.8938D+00	0.2387D-01	0.6878D-02	-0.3770D+01	-0.3416D+00	0.1844D+01	0.5516D+04	
constant	-0.5061D-03	0.1390D-05	0.1943D-06	0.2328D-04	0.6218D-06	0.1792D-06	-0.9821D-04	-0.8900D-05	0.4805D-04	0.1437D+00	
=====											
X (l)	X (k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
=====											
DISCEIN	0.2718D-09	-0.3171D-08	0.1548D+02	0.1266D+02	-0.4618D-02	0.1933D+02	0.2151D+00	-0.7225D+01	-0.3848D+02	0.1223D+02	
LVCEI	0.1107D-08	-0.1292D-07	0.6306D+02	0.5158D+02	-0.1882D-01	0.7874D+02	0.8764D+00	-0.2943D+02	-0.1568D+03	0.4982D+02	
P08PC	-0.9035D-09	0.1054D-07	-0.5145D+02	-0.4209D+02	0.1535D-01	-0.6424D+02	-0.7151D+00	0.2402D+02	0.1279D+03	-0.4065D+02	
PTDEM	-0.5006D-09	0.5840D-08	-0.2851D+02	-0.2332D+02	0.8506D-02	-0.3559D+02	-0.3962D+00	0.1331D+02	0.7088D+02	-0.2252D+02	
NCROUT04	-0.5004D-09	0.5838D-08	-0.2850D+02	-0.2331D+02	0.8503D-02	-0.3558D+02	-0.3961D+00	0.1330D+02	0.7086D+02	-0.2251D+02	
GRPOL	0.1012D-08	-0.1181D-07	0.5765D+02	0.4716D+02	-0.1720D-01	0.7198D+02	0.8013D+00	-0.2691D+02	-0.1433D+03	0.4554D+02	
STR813	-0.1368D-07	0.1595D-06	-0.7787D+03	-0.6370D+03	0.2324D+00	-0.9723D+03	-0.1082D+02	0.3635D+03	0.1936D+04	-0.6152D+03	
STRP	-0.8246D-08	0.9618D-07	-0.4695D+03	-0.3841D+03	0.1401D+00	-0.5863D+03	-0.6526D+01	0.2192D+03	0.1167D+04	-0.3709D+03	
STRCUQ	0.1024D-07	-0.1195D-06	0.5833D+03	0.4772D+03	-0.1741D+00	0.7284D+03	0.8108D+01	-0.2723D+03	-0.1450D+04	0.4608D+03	
GRVOY	-0.1917D-07	0.2236D-06	-0.1092D+04	-0.8929D+03	0.3257D+00	-0.1363D+04	-0.1517D+02	0.5095D+03	0.2714D+04	-0.8624D+03	
AUTPKRP	-0.4227D-10	0.4930D-09	-0.2407D+01	-0.1969D+01	0.7182D-03	-0.3005D+01	-0.3345D-01	0.1123D+01	0.5984D+01	-0.1901D+01	
GRMUMH	0.1539D-07	-0.1795D-06	0.8762D+03	0.7168D+03	-0.2615D+00	0.1094D+04	0.1218D+02	-0.4090D+03	-0.2179D+04	0.6922D+03	
TLK822	0.1101D-06	-0.1284D-05	0.6268D+04	0.5127D+04	-0.1870D+01	0.7826D+04	0.8711D+02	-0.2926D+04	-0.1558D+05	0.4951D+04	
RFK822	0.9187D-09	-0.1072D-07	0.5231D+02	0.4279D+02	-0.1561D-01	0.6532D+02	0.7271D+00	-0.2442D+02	-0.1301D+03	0.4133D+02	
SFK822	0.3440D-07	-0.4013D-06	0.1959D+04	0.1602D+04	-0.5845D+00	0.2446D+04	0.2723D+02	-0.9144D+03	-0.4871D+04	0.1548D+04	
CSFMR822	0.1194D-06	-0.1393D-05	0.6798D+04	0.5561D+04	-0.2029D+01	0.8488D+04	0.9449D+02	-0.3173D+04	-0.1690D+05	0.5370D+04	
LOIIND61	-0.2178D-09	0.2541D-08	-0.1240D+02	-0.1014D+02	0.3701D-02	-0.1549D+02	-0.1724D+00	0.5789D+01	0.3084D+02	-0.9798D+01	
LOIAS	-0.2404D-08	0.2804D-07	-0.1369D+03	-0.1120D+03	0.4084D-01	-0.1709D+03	-0.1902D+01	0.6389D+02	0.3403D+03	-0.1081D+03	
MOP62	0.4452D-09	-0.5193D-08	0.2535D+02	0.2074D+02	-0.7565D-02	0.3166D+02	0.3524D+00	-0.1183D+02	-0.6304D+02	0.2003D+02	
PRMVACR1	0.1489D-12	-0.1736D-11	0.8476D-02	0.6933D-02	-0.2529D-05	0.1058D-01	0.1178D-03	-0.3957D-02	-0.2108D-01	0.6696D-02	
KMPARR1	0.1000D+01	-0.1166D+02	0.5694D+11	0.4658D+11	-0.1699D+08	0.7110D+11	0.7915D+09	-0.2658D+11	-0.1416D+12	0.4499D+11	
DICR1	-0.8573D-01	0.1000D+01	-0.4881D+10	-0.3993D+10	0.1457D+07	-0.6095D+10	-0.6785D+08	0.2279D+10	0.1214D+11	-0.3856D+10	
PGRPKM	0.1756D-10	-0.2049D-09	0.1000D+01	0.8180D+00	-0.2984D-03	0.1249D+01	0.1390D-01	-0.4668D+00	-0.2487D+01	0.7900D+00	
PDRQ	0.2147D-10	-0.2504D-09	0.1222D+01	0.1000D+01	-0.3648D-03	0.1526D+01	0.1699D-01	-0.5706D+00	-0.3040D+01	0.9658D+00	
ENTRNMDC	-0.5885D-07	0.6865D-06	-0.3351D+04	-0.2741D+04	0.1000D+01	-0.4184D+04	-0.4658D+02	0.1564D+04	0.8333D+04	-0.2647D+04	
PPAS	0.1406D-10	-0.1641D-09	0.8009D+00	0.6551D+00	-0.2390D-03	0.1000D+01	0.1113D-01	-0.3738D+00	-0.1991D+01	0.6327D+00	
SURPOL	0.1264D-08	-0.1474D-07	0.7195D+02	0.5885D+02	-0.2147D-01	0.8984D+02	0.1000D+01	-0.3358D+02	-0.1789D+03	0.5684D+02	
PERPA	-0.3762D-10	0.4389D-09	-0.2142D+01	-0.1752D+01	0.6393D-03	-0.2675D+01	-0.2978D-01	0.1000D+01	0.5327D+01	-0.1692D+01	
PRCHOM	-0.7063D-11	0.8239D-10	-0.4022D+00	-0.3290D+00	0.1200D-03	-0.5022D+00	-0.5590D-02	0.1877D+00	0.1000D+01	-0.3177D+00	
PRFEVM	0.2223D-10	-0.2593D-09	0.1266D+01	0.1035D+01	-0.3777D-03	0.1581D+01	0.1759D-01	-0.5909D+00	-0.3147D+01	0.1000D+01	
HEUHM	0.3307D-08	-0.3858D-07	0.1883D+03	0.1540D+03	-0.5619D-01	0.2351D+03	0.2617D+01	-0.8790D+02	-0.4682D+03	0.1488D+03	
PRMED	0.2932D-08	-0.3420D-07	0.1669D+03	0.1366D+03	-0.4981D-01	0.2084D+03	0.2320D+01	-0.7792D+02	-0.4151D+03	0.1319D+03	
PRALT	0.1809D-09	-0.2110D-08	0.1030D+02	0.8426D+01	-0.3074D-02	0.1286D+02	0.1432D+00	-0.4808D+01	-0.2561D+02	0.8138D+01	
PRMTRAR1	0.2139D-13	-0.2496D-12	0.1218D-02	0.9965D-03	-0.3635D-06	0.1521D-02	0.1693D-04	-0.5687D-03	-0.3029D-02	0.9624D-03	
PRMMAGR1	-0.1678D-10	0.1958D-09	-0.9557D+00	-0.7818D+00	0.2852D-03	-0.1193D+01	-0.1328D-01	0.4461D+00	0.2376D+01	-0.7550D+00	
WD	0.1061D-08	-0.1238D-07	0.6044D+02	0.4944D+02	-0.1804D-01	0.7547D+02	0.8401D+00	-0.2821D+02	-0.1503D+03	0.4775D+02	
SAT	0.6532D-09	-0.7620D-08	0.3720D+02	0.3043D+02	-0.1110D-01	0.4645D+02	0.5170D+00	-0.1736D+02	-0.9249D+02	0.2939D+02	
SHD	0.8211D-09	-0.9578D-08	0.4675D+02	0.3825D+02	-0.1395D-01	0.5838D+02	0.6498D+00	-0.2182D+02	-0.1163D+03	0.3694D+02	
constant	0.2139D-13	-0.2495D-12	0.1218D-02	0.9964D-03	-0.3635D-06	0.1521D-02	0.1693D-04	-0.5686D-03	-0.3029D-02	0.9623D-03	
=====											
	X (k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
=====											
X (l)											
=====											

DISCEIN	0.8219D-01	0.9271D-01	0.1503D+01	0.1270D+05	-0.1619D+02	0.2561D+00	0.4161D+00	0.3310D+00	0.1271D+05
LVCEI	0.3349D+00	0.3777D+00	0.6122D+01	0.5176D+05	-0.6598D+02	0.1043D+01	0.1695D+01	0.1349D+01	0.5177D+05
P08PC	-0.2732D+00	-0.3082D+00	-0.4995D+01	-0.4223D+05	0.5383D+02	-0.8513D+00	-0.1383D+01	-0.1100D+01	-0.4224D+05
PTDEM	-0.1514D+00	-0.1708D+00	-0.2768D+01	-0.2340D+05	0.2983D+02	-0.4717D+00	-0.7664D+00	-0.6097D+00	-0.2340D+05
NCRROUT04	-0.1513D+00	-0.1707D+00	-0.2766D+01	-0.2339D+05	0.2982D+02	-0.4715D+00	-0.7661D+00	-0.6095D+00	-0.2339D+05
GRPOL	0.3061D+00	0.3453D+00	0.5597D+01	0.4732D+05	-0.6032D+02	0.9538D+00	0.1550D+01	0.1233D+01	0.4733D+05
STR813	-0.4135D+01	-0.4665D+01	-0.7560D+02	-0.6392D+06	0.8148D+03	-0.1288D+02	-0.2094D+02	-0.1666D+02	-0.6393D+06
STRP	-0.2493D+01	-0.2813D+01	-0.4558D+02	-0.3854D+06	0.4913D+03	-0.7768D+01	-0.1262D+02	-0.1004D+02	-0.3855D+06
STRCUQ	0.3098D+01	0.3494D+01	0.5663D+02	0.4788D+06	-0.6103D+03	0.9651D+01	0.1568D+02	0.1248D+02	0.4789D+06
GRVOY	-0.5797D+01	-0.6539D+01	-0.1060D+03	-0.8960D+06	0.1142D+04	-0.1806D+02	-0.2935D+02	-0.2335D+02	-0.8962D+06
AUTPKRP	-0.1278D-01	-0.1442D-01	-0.2337D+00	-0.1976D+04	0.2518D+01	-0.3982D-01	-0.6470D-01	-0.5148D-01	-0.1976D+04
GRMUMH	0.4653D+01	0.5249D+01	0.8507D+02	0.7192D+06	-0.9168D+03	0.1450D+02	0.2356D+02	0.1874D+02	0.7194D+06
TLK822	0.3328D+02	0.3754D+02	0.6085D+03	0.5145D+07	-0.6558D+04	0.1037D+03	0.1685D+03	0.1341D+03	0.5146D+07
RFK822	0.2778D+00	0.3134D+00	0.5078D+01	0.4294D+05	-0.5473D+02	0.8655D+00	0.1406D+01	0.1119D+01	0.4295D+05
SFK822	0.1040D+02	0.1173D+02	0.1902D+03	0.1608D+07	-0.2050D+04	0.3241D+02	0.5266D+02	0.4190D+02	0.1608D+07
CSFMR822	0.3610D+02	0.4072D+02	0.6600D+03	0.5580D+07	-0.7113D+04	0.1125D+03	0.1828D+03	0.1454D+03	0.5581D+07
LOIIND61	-0.6586D-01	-0.7429D-01	-0.1204D+01	-0.1018D+05	0.1298D+02	-0.2052D+00	-0.3334D+00	-0.2653D+00	-0.1018D+05
LOIAS	-0.7268D+00	-0.8199D+00	-0.1329D+02	-0.1123D+06	0.1432D+03	-0.2264D+01	-0.3679D+01	-0.2927D+01	-0.1124D+06
MOP62	0.1346D+00	0.1519D+00	0.2461D+01	0.2081D+05	-0.2653D+02	0.4195D+00	0.6815D+00	0.5422D+00	0.2081D+05
PRMVACR1	0.4501D-04	0.5077D-04	0.8229D-03	0.6958D+01	-0.8869D-02	0.1402D-03	0.2279D-03	0.1813D-03	0.6959D+01
KMPARR1	0.3024D+09	0.3411D+09	0.5528D+10	0.4674D+14	-0.5958D+11	0.9421D+09	0.1531D+10	0.1218D+10	0.4675D+14
DICR1	-0.2592D+08	-0.2924D+08	-0.4739D+09	-0.4007D+13	0.5108D+10	-0.8077D+08	-0.1312D+09	-0.1044D+09	-0.4008D+13
PGRPKM	0.5310D-02	0.5990D-02	0.9708D-01	0.8209D+03	-0.1046D+01	0.1655D-01	0.2688D-01	0.2139D-01	0.8210D+03
PDRQ	0.6492D-02	0.7323D-02	0.1187D+00	0.1003D+04	-0.1279D+01	0.2023D-01	0.3287D-01	0.2615D-01	0.1004D+04
ENTRNMDC	-0.1780D+02	-0.2007D+02	-0.3253D+03	-0.2751D+07	0.3506D+04	-0.5545D+02	-0.9009D+02	-0.7168D+02	-0.2751D+07
PPAS	0.4253D-02	0.4797D-02	0.7775D-01	0.6574D+03	-0.8380D+00	0.1325D-01	0.2153D-01	0.1713D-01	0.6575D+03
SURPOL	0.3821D+00	0.4310D+00	0.6985D+01	0.5906D+05	-0.7528D+02	0.1190D+01	0.1934D+01	0.1539D+01	0.5907D+05
PERPA	-0.1138D-01	-0.1283D-01	-0.2080D+00	-0.1758D+04	0.2241D+01	-0.3545D-01	-0.5759D-01	-0.4582D-01	-0.1759D+04
PRCHOM	-0.2136D-02	-0.2409D-02	-0.3904D-01	-0.3301D+03	0.4208D+00	-0.6654D-02	-0.1081D-01	-0.8602D-02	-0.3302D+03
PRFEVM	0.6722D-02	0.7583D-02	0.1229D+00	0.1039D+04	-0.1324D+01	0.2094D-01	0.3403D-01	0.2707D-01	0.1039D+04
HEUHM	0.1000D+01	0.1128D+01	0.1828D+02	0.1546D+06	-0.1970D+03	0.3116D+01	0.5063D+01	0.4028D+01	0.1546D+06
PRMED	0.8865D+00	0.1000D+01	0.1621D+02	0.1370D+06	-0.1747D+03	0.2762D+01	0.4488D+01	0.3571D+01	0.1371D+06
PRALT	0.5470D-01	0.6170D-01	0.1000D+01	0.8455D+04	-0.1078D+02	0.1704D+00	0.2769D+00	0.2203D+00	0.8457D+04
PRMTRAR1	0.6469D-05	0.7298D-05	0.1183D-03	0.1000D+01	-0.1275D-02	0.2016D-04	0.3275D-04	0.2606D-04	0.1000D+01
PRMMAGR1	-0.5075D-02	-0.5725D-02	-0.9279D-01	-0.7845D+03	0.1000D+01	-0.1581D-01	-0.2569D-01	-0.2044D-01	-0.7847D+03
WD	0.3210D+00	0.3621D+00	0.5868D+01	0.4961D+05	-0.6324D+02	0.1000D+01	0.1625D+01	0.1293D+01	0.4962D+05
SAT	0.1975D+00	0.2228D+00	0.3611D+01	0.3053D+05	-0.3892D+02	0.6154D+00	0.1000D+01	0.7956D+00	0.3054D+05
SHD	0.2483D+00	0.2801D+00	0.4539D+01	0.3838D+05	-0.4892D+02	0.7736D+00	0.1257D+01	0.1000D+01	0.3839D+05
constant	0.6468D-05	0.7296D-05	0.1182D-03	0.9998D+00	-0.1274D-02	0.2015D-04	0.3275D-04	0.2605D-04	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.1396727D+01	0.1396725D+01
STD_ERROR	0.6502020D-01	0.3927297D-01
SKEWNESS	3.1208523	0.1576228

E(y) at the means : 0.1396725D+01

Sig(y) at the means : 0.5174346D-01

C.o.V. at the means : 0.0370463

Gam(y) at the means : -0.0112295

Pearson-R2 : 0.3648305

```

Pearson-R2 bar      :      0.2723537
Pseudo-(1)-R2      :      0.3648305
Pseudo-(1)-R2 bar  :      0.2723537
Error Variance      :      0.2676309D-02
Log-likelihood      :      0.4628160D+03

```

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

```

      5      500  0.1D+01  0.1D-06
0.00000D+00  0.00000D+00  0.00000D+00  0.10000D+01  0.10000D+01
0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01  0.10000D+01
0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00  0.00000D+00

```

first entry to fcn , parameters of current step follow - - f,x(i)
-0.4628159582D+03 0.00000D+00 0.00000D+00 0.00000D+00 0.10000D+01 0.10000D+01

new absolute minimum , parameters for fcn entry 5 follow - - f,x(i)
-0.4690573701D+03 -0.15500D+00 -0.14545D+00 -0.49143D-01 0.97885D+00 0.83959D+00

new absolute minimum , parameters for fcn entry 9 follow - - f,x(i)
-0.4889964921D+03 -0.14948D+00 -0.63016D-01 -0.37624D+00 0.85010D+00 -0.71427D+00

new absolute minimum , parameters for fcn entry 13 follow - - f,x(i)
-0.5209431503D+03 -0.60677D-01 -0.10620D+00 -0.23941D-01 0.62774D+00 -0.31419D+01

new absolute minimum , parameters for fcn entry 16 follow - - f,x(i)
-0.5222280946D+03 -0.88983D-01 -0.55076D-01 -0.12548D-01 0.18902D+00 -0.32268D+01

new absolute minimum , parameters for fcn entry 19 follow - - f,x(i)
-0.5229392122D+03 -0.42196D-01 -0.87451D-01 -0.24807D-01 -0.70919D-01 -0.32746D+01

new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)
-0.5235955271D+03 -0.80856D-01 -0.10953D+00 -0.77136D-01 -0.78445D-01 -0.34841D+01

new absolute minimum , parameters for fcn entry 24 follow - - f,x(i)
-0.5236217727D+03 -0.78462D-01 -0.11420D+00 -0.71100D-01 -0.68716D-01 -0.35779D+01

new absolute minimum , parameters for fcn entry 26 follow - - f,x(i)
-0.5236226156D+03 -0.77844D-01 -0.11229D+00 -0.71859D-01 -0.63047D-01 -0.35870D+01

new absolute minimum , parameters for fcn entry 28 follow - - f,x(i)
-0.5236226162D+03 -0.77817D-01 -0.11230D+00 -0.71841D-01 -0.62688D-01 -0.35868D+01

new absolute minimum , parameters for fcn entry 29 follow - - f,x(i)
-0.5236226162D+03 -0.77818D-01 -0.11230D+00 -0.71841D-01 -0.62684D-01 -0.35868D+01

new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
-0.5236226162D+03 -0.77818D-01 -0.11230D+00 -0.71841D-01 -0.62685D-01 -0.35868D+01

new absolute minimum , parameters for fcn entry 31 follow - - f,x(i)
-0.5236226162D+03 -0.77818D-01 -0.11230D+00 -0.71841D-01 -0.62685D-01 -0.35868D+01

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - - -

therefore the run has been terminated
-0.5236226162D+03 -0.77818D-01 -0.11230D+00 -0.71841D-01 -0.62685D-01 -0.35868D+01

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.5236226162D+03 for entry 31 - - x(i) follows
-0.77818D-01 -0.11230D+00 -0.71841D-01 -0.62685D-01 -0.35868D+01

run statistics follow - -

nfcn= 31 nst= 12

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000
Upper limit for y if lambda(y) is negative = 2.68732202293877

```

Estimation Sample :      14      313
OBSERVED Y      FITTED E(Y)
MEAN      0.1396727D+01  0.1396478D+01
STD.ERROR  0.6502020D-01  0.4125982D-01
SKEWNESS   3.1208523      0.4633767

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E(y) at the means : 0.1402743D+01

Sig(y) at the means : 0.4387859D-01

C.o.V. at the means : 0.0312806

Gam(y) at the means : 0.4444073

Pearson-R2 : 0.3634531
 Pearson-R2 bar : 0.2565332
 Pseudo-(1)-R2 : 0.5066003
 Pseudo-(1)-R2 bar : 0.4237246
 Error Variance : 0.8400033D-04
 Log-likelihood : 0.5236226D+03

FINAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y			E L A S T I C I T Y		
	type	group					y(sample)	E(y)	SIGMA(y)	y(sample)	E(y)	SIGMA(y)
							-first obs	14	302	-first obs	14	302
							-last obs	313	313	-last obs	313	313
1 DISCEIN	NL	0	0.1853631D-02	0.5178100D-03	0.1730440D-01 0.1729379D-01	0.1071 0.1072	0.0028	0.0029 0.0135	0.0053	0.0054 0.0250	0.0028	0.0029 0.0135
2 LVCEI	NL	0	0.2386863D-02	0.2869365D-03	0.5463731D-02 0.5153526D-02	0.4369 0.4632	0.0020	0.0114 0.0021	0.0069	0.0195 0.0069	0.0020	0.0097 0.0321
3 P08PC	NL	0	-0.3278814D-02	0.5922545D-03	0.5458398D-02 0.5407770D-02	-0.6007 -0.6063	-0.0057	0.0082 -0.0058	-0.0094	0.0251 -0.0095	-0.0057	-0.0082 -0.0273
4 PTDEM	NL	0	-0.4679377D-02	0.4438395D-03	0.7246175D-02 0.7080676D-02	-0.6458 -0.6609	-0.0061	-0.0231 -0.0062	-0.0134	-0.0344 -0.0135	-0.0061	-0.0231 -0.0293
5 NCR0UT04	NL	0	-0.8285499D-02	0.2941350D-04	0.8737833D-02 0.8718952D-02	-0.9482 -0.9503	-0.0008	-0.0248 -0.0008	-0.0178	-0.0491 -0.0180	-0.0008	-0.0248 -0.0008
6 GRPOL	NL	0	0.2982627D-02	0.1205374D-04	0.4166073D-01 0.4158114D-01	0.0716 0.0717	0.0001	-0.0040 -0.0033	0.0000	-0.0837 -0.0652	0.0001	-0.0040 -0.0033
7 STR813	NL	0	-0.2828946D-03	0.5366595D-03	0.3071763D-03 0.3053453D-03	-0.9210 -0.9265	-0.0004	0.0001 -0.0005	-0.0009	0.0000 -0.0009	-0.0004	0.0001 -0.0005
8 STRP	NL	0	-0.8072179D-04	0.1428872D-03	0.1156044D-02 0.1149972D-02	-0.0698 -0.0702	0.0000	-0.0021 -0.0018	-0.0002	-0.0041 -0.0032	0.0000	-0.0021 -0.0018
9 STRCUQ	NL	0	0.1554983D-03	0.1470079D-02	0.2629771D-03 0.2353798D-03	0.5913 0.6606	0.0007	-0.0002 0.0007	0.0006	-0.0007 0.0006	0.0007	-0.0002 0.0007
10 GRVOY	NL	0	-0.2059084D-03	0.9012703D-03	0.2859735D-03 0.2856785D-03	-0.7200 -0.7208	-0.0005	0.0032 0.0027	0.0000	0.0026 0.0020	-0.0005	0.0032 0.0027
11 AUTPKRP	NL	0	-0.6679016D-01	0.3684607D-03	0.4074170D-01 0.3947755D-01	-1.6394 -1.6919	-0.0720	-0.0006 -0.0022	-0.0986	0.0000 0.0000	-0.0720	-0.0006 -0.0022
12 GRMUMH	NL	0	0.8343502D-04	0.1961133D-03	0.3963738D-03 0.3960367D-03	0.2105 0.2107	0.0000	-0.0737 -0.3453	0.0000	-0.0993 -0.4621	0.0000	-0.0737 -0.3453
13 TLK822	NL	0	0.3392529D-04	0.2200535D+00	0.1147916D-04 0.1100100D-04	2.9554 3.0838	0.0217	-0.2925 0.0000	0.0184	-0.3603 0.0000	0.0217	-0.2925 0.0000
14 RFK822	NL	0	0.3525049D-02	0.8790750D-03	0.2204959D-02 0.2149384D-02	1.5987 1.6400	0.0090	0.0002 0.0092	0.0077	0.0000 0.0077	0.0090	0.0002 0.0092
15 SFK822	NL	0	-0.3416141D-04	0.2865791D-02	0.3686354D-03 0.3595104D-03	-0.0927 -0.0950	-0.0003	0.0432 0.0366	-0.0002	0.0359 0.0280	-0.0003	0.0432 0.0366
16 CSFMR822	NL	0	0.3859636D-04	0.2685806D-01	0.4731190D-04 0.4680558D-04	0.8158 0.8246	0.0030	-0.0012 0.0031	0.0022	-0.0006 0.0022	0.0030	-0.0012 0.0031
17 LOIIND61	NL	0	-0.1963438D-01	0.9762067D-03	0.5579923D-02 0.5242981D-02	-3.5188 -3.7449	-0.0560	0.0144 0.0122	-0.0564	0.0104 0.0081	-0.0560	0.0144 0.0122
18 LOIAS	NL	0	-0.1653546D-02	0.2156376D-03	0.7148339D-02 0.7111370D-02	-0.2313 -0.2325	-0.0011	-0.0573 -0.2685	-0.0047	-0.0568 -0.2644	-0.0011	-0.0573 -0.2685
19 MOP62	NL	0	0.1131017D-01	0.9306171D-03	0.5093700D-02 0.5015802D-02	2.2204 2.2549	0.0307	-0.2274 0.0011	0.0325	-0.0174 0.0327	0.0307	-0.2274 0.0011
20 PRMVACR1	NL	0	0.3504293D+02	0.4934559D-07	0.3925612D+02 0.3752481D+02	0.8927 0.9339	0.0051	0.0315 0.1475	0.0050	0.0327 0.1523	0.0051	0.0315 0.1475
21 KMPARR1	EL	1	0.7731652D-01	0.1351847D-01	0.1165956D+01 0.1003035D+00	0.0663 0.7708	0.0658	0.1249 0.0052	0.0564	0.1187 0.0050	0.0658	0.1249 0.0052
22 DICR1	EL	1	-0.1413477D-01	0.1217409D-01	0.1749560D+00 0.1099277D-01	-0.0808 -1.2858	-0.0152	0.0242 0.0205	-0.0127	0.0232 0.0181	-0.0152	0.0242 0.0205
23 PGRPKM	EL	1	0.3391870D-03	-0.5416855D-02	0.1992030D-01 0.1972358D-01	0.0170 0.0172	0.0015	0.0674 0.3157	0.0012	0.0569 0.2647	0.0015	0.0674 0.3157
24 PDRQ	EL	1	-0.1742513D-01	-0.2946262D-02	0.4479452D-01 0.2797325D-01	-0.3890 -0.6229	-0.0671	0.2674 -0.0156	-0.0564	0.2064 -0.0128	-0.0671	0.2674 -0.0156
25 ENTRNMDC	EL	1	-0.2183781D-01	0.4149919D-02	0.7343055D-01 0.3840673D-01	-0.2974 -0.5686	-0.0558	-0.0730 -0.0618	-0.0476	-0.0598 -0.0466	-0.0558	-0.0730 -0.0618
26 PPAS	EL	1	0.8208762D-01	-0.2248225D-02	0.1186323D+00 0.4302646D-01	0.6920 1.9078	0.3051	0.0070 0.0059	0.2565	0.0057 0.0045	0.3051	0.0070 0.0059
27 SURPOL	EL	1	0.1114623D-01	0.2233194D-02	0.2378423D-01 0.1477349D-01	0.4686 0.7545	0.0324	1.4638 1.2396	0.0282	1.2027 0.9377	0.0324	1.4638 1.2396
								0.0331		0.0284		0.0331
								0.1553		0.1321		0.1553

28	PERPA	EL	1	-0.7722298D-01	0.2930816D-03	0.4139339D-01 0.2750860D-01	-1.8656 -2.8072	-0.2518	0.1315 -0.2578 -1.2081 -1.0231	-0.2166	0.1030 -0.2182 -1.0159 -0.7920
29	PRCHOM	EL	1	-0.1316723D-01	-0.4178848D-02	0.3256912D-01 0.5182596D-02	-0.4043 -2.5407	-0.0535	-0.0548 -0.2567 -0.2174	-0.0452	-0.0456 -0.2121 -0.1654
30	PRFEVM	EL	1	0.1256437D-01	-0.5906670D-02	0.4400241D-01 0.1519915D-01	0.2855 0.8266	0.0551	0.0564 0.2645 0.2240	0.0480	0.0484 0.2252 0.1756
31	HEUHM	EL	1	0.5052931D-01	0.3764537D-02	0.1442607D+00 0.6603345D-01	0.3503 0.7652	0.1329	0.1360 0.6373 0.5397	0.1155	0.1164 0.5418 0.4224
32	PRMED	EL	1	0.2464164D-02	0.1193263D-02	0.1323609D-01 0.1319800D-01	0.1862 0.1867	0.0076	0.0078 0.0366 0.0310	0.0065	0.0066 0.0306 0.0238
33	PRALT	EL	1	0.1032634D-01	-0.4161922D-03	0.1253563D-01 0.1197014D-01	0.8238 0.8627	0.0350	0.0358 0.1677 0.1420	0.0301	0.0304 0.1414 0.1102
34	PRMTRARI	EL	1	0.7243994D-02	-0.1563292D-01	0.5848944D-01 0.1095894D-01	0.1239 0.6610	0.0446	0.0456 0.2137 0.1810	0.0391	0.0394 0.1833 0.1429
35	PRMMAGRI	EL	1	-0.2020779D-01	-0.2357834D-02	0.3315115D-01 0.1337017D-01	-0.6096 -1.5114	-0.0756	-0.0774 -0.3628 -0.3073	-0.0653	-0.0658 -0.3062 -0.2387
36	WD	EL	1	0.4417381D-01	0.3154701D-02	0.1033405D+00 0.3201445D-01	0.4275 1.3798	0.1210	0.1239 0.5807 0.4918	0.1048	0.1056 0.4915 0.3832
37	SAT	EL	1	0.2000615D-01	0.1595300D-02	0.2427340D-01 0.1044387D-01	0.8242 1.9156	0.0605	0.0619 0.2901 0.2457	0.0524	0.0528 0.2458 0.1916
38	SHD	EL	1	0.1942260D-01	0.1778861D-02	0.2488258D-01 0.7520993D-02	0.7806 2.5825	0.0580	0.0594 0.2784 0.2358	0.0504	0.0507 0.2362 0.1842
39	constant	NL	0	-0.6274946D+00	0.1140936D-02	0.7890252D+01 0.1054432D+01	-0.0795 -0.5951	-2.0802	-2.1297 -9.9786 -8.4507	-1.8020	-1.8154 -8.4503 -6.5879

Autocorrelation

40	rho 4			-0.7766134D-01	-0.1203701D-05	0.6490239D-01 0.6401064D-01	-1.1966 -1.2133				
41	rho 6			-0.1118312D+00	-0.7945389D-07	0.7462264D-01 0.7435165D-01	-1.4986 -1.5041				
42	rho 10			-0.7171754D-01	-0.5787825D-06	0.6730210D-01 0.6681234D-01	-1.0656 -1.0734				

Box-cox on (x)

43	lambda(x) 1			-0.6268511D-01	0.8799270D-02	0.7237436D+00	-0.0866 -1.4683				
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Box-cox on (y)

44	lambda(y)			-0.3586838D+01	-0.2992650D-04	0.4939238D+00	-7.2619 -9.2865				
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Residual (w)

45	error variance			0.8400033D-04	-0.6102709D-09	0.2948001D-04 0.6824686D-05	2.8494 12.3083				
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LAMBDA TYPE SYMBOL:

NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y) with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	0.8582734D-02	0.8824969D-02	0.1293402D-02	0.1109402D-01
2 LVCEI	0.1105172D-01	0.1136364D-01	0.1665473D-02	0.1428542D-01
3 P08PC	-0.1518166D-01	-0.1561014D-01	-0.2287847D-02	-0.1962377D-01
4 PTDEM	-0.2166658D-01	-0.2227809D-01	-0.3265113D-02	-0.2800616D-01
5 NCRROUT04	-0.3836375D-01	-0.3944651D-01	-0.5781345D-02	-0.4958887D-01
6 GRPOL	0.1381024D-01	0.1420001D-01	0.2081177D-02	0.1785108D-01
7 STR813	-0.1309867D-02	-0.1346836D-02	-0.1973944D-03	-0.1693130D-02
8 STRP	-0.3737603D-03	-0.3843091D-03	-0.5632497D-04	-0.4831214D-03
9 STRCUQ	0.7199925D-03	0.7403132D-03	0.1085015D-03	0.9306601D-03
10 GRVOY	-0.9534027D-03	-0.9803111D-03	-0.1436760D-03	-0.1232365D-02
11 AUTPKRP	-0.3092537D+00	-0.3179819D+00	-0.4660395D-01	-0.3997404D+00
12 GRMUMH	0.3863232D-03	0.3972265D-03	0.5821817D-04	0.4993602D-03

13	TLK822	0.1570818D-03	0.1615152D-03	0.2367194D-04	0.2030435D-03
14	RFK822	0.1632178D-01	0.1678244D-01	0.2459662D-02	0.2109748D-01
15	SFK822	-0.1581751D-03	-0.1626394D-03	-0.2383670D-04	-0.2044567D-03
16	CSFMR822	0.1787100D-03	0.1837538D-03	0.2693126D-04	0.2310000D-03
17	LOIIND61	-0.9091166D-01	-0.9347750D-01	-0.1370021D-01	-0.1175121D+00
18	LOIAS	-0.7656294D-02	-0.7872381D-02	-0.1153789D-02	-0.9896503D-02
19	MOP62	0.5236869D-01	0.5384672D-01	0.7891863D-02	0.6769161D-01
20	PRMVACR1	0.1622567D+03	0.1668362D+03	0.2445179D+02	0.2097326D+03
21	KMPARR1	0.3507732D-10	0.3606733D-10	0.5286086D-11	0.4534084D-10
22	DICR1	-0.3456833D-09	-0.3554397D-09	-0.5209382D-10	-0.4468292D-09
23	PGRPKM	0.1269770D+00	0.1305607D+00	0.1913519D-01	0.1641300D+00
24	PDRQ	-0.1010420D+01	-0.1038937D+01	-0.1522683D+00	-0.1306065D+01
25	ENTRNMD	-0.1238843D-02	-0.1273807D-02	-0.1866913D-03	-0.1601324D-02
26	PPAS	0.2648509D+01	0.2723260D+01	0.3991254D+00	0.3423455D+01
27	SURPOL	0.5475528D-02	0.5630066D-02	0.8251517D-03	0.7077650D-02
28	PERPA	-0.2710511D+00	-0.2787012D+00	-0.4084690D-01	-0.3503599D+00
29	PRCHOM	-0.1924456D+01	-0.1978771D+01	-0.2900119D+00	-0.2487546D+01
30	PRFEVM	0.6756500D+01	0.6947192D+01	0.1018192D+01	0.8733432D+01
31	HEUHM	0.4602750D-02	0.4732656D-02	0.6936257D-03	0.5949501D-02
32	PRMED	0.3545128D-02	0.3645184D-02	0.5342442D-03	0.4582422D-02
33	PRALT	0.6806363D-01	0.6998462D-01	0.1025706D-01	0.8797884D-01
34	PRMTRAR1	0.1190542D+04	0.1224143D+04	0.1794124D+03	0.1538891D+04
35	PRMMAGR1	-0.7330324D+00	-0.7537211D+00	-0.1104666D+00	-0.9475154D+00
36	WD	0.8104973D-02	0.8333724D-02	0.1221404D-02	0.1047646D-01
37	SAT	0.1943599D-01	0.1998454D-01	0.2928968D-02	0.2512291D-01
38	SHD	0.1551183D-01	0.1594963D-01	0.2337603D-02	0.2005054D-01
39	constant	-0.2905443D+01	-0.2987445D+01	-0.4378448D+00	-0.3755567D+01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.6823D+01	0.7955D+00
SIGMA(y)	0.1466D+00	0.1000D+01	0.1166D+00
GAMMA(y)	0.1257D+01	0.8577D+01	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2134D+00	0.2520D+00
SIGMA(y)	0.4685D+01	0.1000D+01	0.1181D+01
GAMMA(y)	0.3968D+01	0.8469D+00	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	0.1288D+01	-0.1769D+01	-0.2524D+01	-0.4470D+01	0.1609D+01	-0.1526D+00	-0.4355D-01	0.8389D-01	-0.1111D+00
LVCEI		0.7766D+00	0.1000D+01	-0.1374D+01	-0.1960D+01	-0.3471D+01	0.1250D+01	-0.1185D+00	-0.3382D-01	0.6515D-01	-0.8627D-01
P08PC		-0.5653D+00	-0.7280D+00	0.1000D+01	0.1427D+01	0.2527D+01	-0.9097D+00	0.8628D-01	0.2462D-01	-0.4743D-01	0.6280D-01
PTDEM		-0.3961D+00	-0.5101D+00	0.7007D+00	0.1000D+01	0.1771D+01	-0.6374D+00	0.6046D-01	0.1725D-01	-0.3323D-01	0.4400D-01
NCROUT04		-0.2237D+00	-0.2881D+00	0.3957D+00	0.5648D+00	0.1000D+01	-0.3600D+00	0.3414D-01	0.9743D-02	-0.1877D-01	0.2485D-01
GRPOL		0.6215D+00	0.8003D+00	-0.1099D+01	-0.1569D+01	-0.2778D+01	0.1000D+01	-0.9485D-01	-0.2706D-01	0.5213D-01	-0.6904D-01

STR813	-0.6552D+01	-0.8437D+01	0.1159D+02	0.1654D+02	0.2929D+02	-0.1054D+02	0.1000D+01	0.2853D+00	-0.5497D+00	0.7279D+00
STRP	-0.2296D+02	-0.2957D+02	0.4062D+02	0.5797D+02	0.1026D+03	-0.3695D+02	0.3505D+01	0.1000D+01	-0.1926D+01	0.2551D+01
STRCUQ	0.1192D+02	0.1535D+02	-0.2109D+02	-0.3009D+02	-0.5328D+02	0.1918D+02	-0.1819D+01	-0.5191D+00	0.1000D+01	-0.1324D+01
GRVOY	-0.9002D+01	-0.1159D+02	0.1592D+02	0.2273D+02	0.4024D+02	-0.1449D+02	0.1374D+01	0.3920D+00	-0.7552D+00	0.1000D+01
AUTPKRP	-0.2775D-01	-0.3574D-01	0.4909D-01	0.7006D-01	0.1241D+00	-0.4466D-01	0.4236D-02	0.1209D-02	-0.2328D-02	0.3083D-02
GRMUMH	0.2222D+02	0.2861D+02	-0.3930D+02	-0.5608D+02	-0.9930D+02	0.3575D+02	-0.3391D+01	-0.9675D+00	0.1864D+01	-0.2468D+01
TLK822	0.5464D+02	0.7036D+02	-0.9665D+02	-0.1379D+03	-0.2442D+03	0.8792D+02	-0.8339D+01	-0.2379D+01	0.4584D+01	-0.6069D+01
RFK822	0.5258D+00	0.6771D+00	-0.9301D+00	-0.1327D+01	-0.2350D+01	0.8461D+00	-0.8025D-01	-0.2290D-01	0.4411D-01	-0.5841D-01
SFK822	-0.5426D+02	-0.6987D+02	0.9598D+02	0.1370D+03	0.2425D+03	-0.8731D+02	0.8281D+01	0.2363D+01	-0.4552D+01	0.6028D+01
CSFMR822	0.4803D+02	0.6184D+02	-0.8495D+02	-0.1212D+03	-0.2147D+03	0.7728D+02	-0.7330D+01	-0.2091D+01	0.4029D+01	-0.5335D+01
LOIIND61	-0.9441D-01	-0.1216D+00	0.1670D+00	0.2383D+00	0.4220D+00	-0.1519D+00	0.1441D-01	0.4111D-02	-0.7920D-02	0.1049D-01
LOIAS	-0.1121D+01	-0.1443D+01	0.1983D+01	0.2830D+01	0.5011D+01	-0.1804D+01	0.1711D+00	0.4882D-01	-0.9404D-01	0.1245D+00
MOP62	0.1639D+00	0.2110D+00	-0.2899D+00	-0.4137D+00	-0.7326D+00	0.2637D+00	-0.2501D-01	-0.7137D-02	0.1375D-01	-0.1821D-01
PRMVACR1	0.5290D-04	0.6811D-04	-0.9357D-04	-0.1335D-03	-0.2364D-03	0.8511D-04	-0.8073D-05	-0.2304D-05	0.4437D-05	-0.5876D-05
KMPARR1	0.2447D+09	0.3151D+09	-0.4328D+09	-0.6177D+09	-0.1094D+10	0.3937D+09	-0.3734D+08	-0.1066D+08	0.2053D+08	-0.2718D+08
DICR1	-0.2483D+08	-0.3197D+08	0.4392D+08	0.6268D+08	0.1110D+09	-0.3995D+08	0.3789D+07	0.1081D+07	-0.2083D+07	0.2758D+07
PGRPKM	0.6759D-01	0.8704D-01	-0.1196D+00	-0.1706D+00	-0.3021D+00	0.1088D+00	-0.1032D-01	-0.2944D-02	0.5670D-02	-0.7508D-02
PDRQ	-0.8494D-02	-0.1094D-01	0.1503D-01	0.2144D-01	0.3797D-01	-0.1367D-01	0.1296D-02	0.3699D-03	-0.7126D-03	0.9436D-03
ENTRNMDC	-0.6928D+01	-0.8921D+01	0.1225D+02	0.1749D+02	0.3097D+02	-0.1115D+02	0.1057D+01	0.3017D+00	-0.5812D+00	0.7696D+00
PPAS	0.3241D-02	0.4173D-02	-0.5732D-02	-0.8181D-02	-0.1449D-01	0.5214D-02	-0.4946D-03	-0.1411D-03	0.2718D-03	-0.3600D-03
SURPOL	0.1567D+01	0.2018D+01	-0.2773D+01	-0.3957D+01	-0.7006D+01	0.2522D+01	-0.2392D+00	-0.6826D-01	0.1315D+00	-0.1741D+00
PERPA	-0.3166D-01	-0.4077D-01	0.5601D-01	0.7994D-01	0.1415D+00	-0.5095D-01	0.4833D-02	0.1379D-02	-0.2656D-02	0.3517D-02
PRCHOM	-0.4460D-02	-0.5743D-02	0.7889D-02	0.1126D-01	0.1993D-01	-0.7176D-02	0.6806D-03	0.1942D-03	-0.3741D-03	0.4954D-03
PRFEVM	0.1270D-02	0.1636D-02	-0.2247D-02	-0.3207D-02	-0.5678D-02	0.2044D-02	-0.1939D-03	-0.5532D-04	0.1066D-03	-0.1411D-03
HEUHM	0.1865D+01	0.2401D+01	-0.3298D+01	-0.4707D+01	-0.8335D+01	0.3000D+01	-0.2846D+00	-0.8120D-01	0.1564D+00	-0.2071D+00
PRMED	0.2421D+01	0.3117D+01	-0.4282D+01	-0.6112D+01	-0.1082D+02	0.3896D+01	-0.3695D+00	-0.1054D+00	0.2031D+00	-0.2689D+00
PRALT	0.1261D+00	0.1624D+00	-0.2231D+00	-0.3183D+00	-0.5636D+00	0.2029D+00	-0.1924D-01	-0.5491D-02	0.1058D-01	-0.1401D-01
PRMTRAR1	0.7209D-05	0.9283D-05	-0.1275D-04	-0.1820D-04	-0.3222D-04	0.1160D-04	-0.1100D-05	-0.3139D-06	0.6048D-06	-0.8008D-06
PRMMAGR1	-0.1171D-01	-0.1508D-01	0.2071D-01	0.2956D-01	0.5234D-01	-0.1884D-01	0.1787D-02	0.5099D-03	-0.9822D-03	0.1301D-02
WD	0.1059D+01	0.1364D+01	-0.1873D+01	-0.2673D+01	-0.4733D+01	0.1704D+01	-0.1616D+00	-0.4611D-01	0.8883D-01	-0.1176D+00
SAT	0.4416D+00	0.5686D+00	-0.7811D+00	-0.1115D+01	-0.1974D+01	0.7105D+00	-0.6739D-01	-0.1923D-01	0.3704D-01	-0.4905D-01
SHD	0.5533D+00	0.7125D+00	-0.9787D+00	-0.1397D+01	-0.2473D+01	0.8903D+00	-0.8444D-01	-0.2410D-01	0.4642D-01	-0.6146D-01
constant	-0.2954D-02	-0.3804D-02	0.5225D-02	0.7457D-02	0.1320D-01	-0.4753D-02	0.4508D-03	0.1286D-03	-0.2478D-03	0.3281D-03
=====										
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62
=====										
DISCEIN	-0.3603D+02	0.4501D-01	0.1830D-01	0.1902D+01	-0.1843D-01	0.2082D-01	-0.1059D+02	-0.8921D+00	0.6102D+01	0.1891D+05
LVCEI	-0.2798D+02	0.3496D-01	0.1421D-01	0.1477D+01	-0.1431D-01	0.1617D-01	-0.8226D+01	-0.6928D+00	0.4739D+01	0.1468D+05
P08PC	0.2037D+02	-0.2545D-01	-0.1035D-01	-0.1075D+01	0.1042D-01	-0.1177D-01	0.5988D+01	0.5043D+00	-0.3449D+01	-0.1069D+05
PTDEM	0.1427D+02	-0.1783D-01	-0.7250D-02	-0.7533D+00	0.7300D-02	-0.8248D-02	0.4196D+01	0.3534D+00	-0.2417D+01	-0.7489D+04
NCRROUT04	0.8061D+01	-0.1007D-01	-0.4095D-02	-0.4254D+00	0.4123D-02	-0.4658D-02	0.2370D+01	0.1996D+00	-0.1365D+01	-0.4229D+04
GRPOL	-0.2239D+02	0.2797D-01	0.1137D-01	0.1182D+01	-0.1145D-01	0.1294D-01	-0.6583D+01	-0.5544D+00	0.3792D+01	0.1175D+05
STR813	0.2361D+03	-0.2949D+00	-0.1199D+00	-0.1246D+02	0.1208D+00	-0.1364D+00	0.6941D+02	0.5845D+01	-0.3998D+02	-0.1239D+06
STRP	0.8274D+03	-0.1034D+01	-0.4203D+00	-0.4367D+02	0.4232D+00	-0.4781D+00	0.2432D+03	0.2048D+02	-0.1401D+03	-0.4341D+06
STRCUQ	-0.4295D+03	0.5366D+00	0.2182D+00	0.2267D+02	-0.2197D+00	0.2482D+00	-0.1263D+03	-0.1063D+02	0.7274D+02	0.2254D+06
GRVOY	0.3244D+03	-0.4052D+00	-0.1648D+00	-0.1712D+02	0.1659D+00	-0.1874D+00	0.9535D+02	0.8030D+01	-0.5493D+02	-0.1702D+06
AUTPKRP	0.1000D+01	-0.1249D-02	-0.5079D-03	-0.5278D-01	0.5115D-03	-0.5779D-03	0.2940D+00	0.2476D-01	-0.1693D+00	-0.5247D+03
GRMUMH	-0.8005D+03	0.1000D+01	0.4066D+00	0.4225D+02	-0.4094D+00	0.4626D+00	-0.2353D+03	-0.1982D+02	0.1356D+03	0.4200D+06
TLK822	-0.1969D+04	0.2459D+01	0.1000D+01	0.1039D+03	-0.1007D+01	0.1138D+01	-0.5788D+03	-0.4874D+02	0.3334D+03	0.1033D+07
RFK822	-0.1895D+02	0.2367D-01	0.9624D-02	0.1000D+01	-0.9691D-02	0.1095D-01	-0.5570D+01	-0.4691D+00	0.3209D+01	0.9941D+04
SFK822	0.1955D+04	-0.2442D+01	-0.9931D+00	-0.1032D+03	0.1000D+01	-0.1130D+01	0.5748D+03	0.4840D+02	-0.3311D+03	-0.1026D+07

CSFMR822	-0.1730D+04	0.2162D+01	0.8790D+00	0.9133D+02	-0.8851D+00	0.1000D+01	-0.5087D+03	-0.4284D+02	0.2930D+03	0.9079D+06
LOIIND61	0.3402D+01	-0.4249D-02	-0.1728D-02	-0.1795D+00	0.1740D-02	-0.1966D-02	0.1000D+01	0.8422D-01	-0.5760D+00	-0.1785D+04
LOIAS	0.4039D+02	-0.5046D-01	-0.2052D-01	-0.2132D+01	0.2066D-01	-0.2334D-01	0.1187D+02	0.1000D+01	-0.6840D+01	-0.2119D+05
MOP62	-0.5905D+01	0.7377D-02	0.3000D-02	0.3117D+00	-0.3020D-02	0.3413D-02	-0.1736D+01	-0.1462D+00	0.1000D+01	0.3098D+04
PRMVACR1	-0.1906D-02	0.2381D-05	0.9681D-06	0.1006D-03	-0.9748D-06	0.1101D-05	-0.5603D-03	-0.4719D-04	0.3228D-03	0.1000D+01
KMPARR1	-0.8816D+10	0.1101D+08	0.4478D+07	0.4653D+09	-0.4509D+07	0.5095D+07	-0.2592D+10	-0.2183D+09	0.1493D+10	0.4626D+13
DICR1	0.8946D+09	-0.1118D+07	-0.4544D+06	-0.4722D+08	0.4576D+06	-0.5170D+06	0.2630D+09	0.2215D+08	-0.1515D+09	-0.4694D+12
PGRPKM	-0.2436D+01	0.3042D-02	0.1237D-02	0.1285D+00	-0.1246D-02	0.1407D-02	-0.7160D+00	-0.6030D-01	0.4124D+00	0.1278D+04
PDRQ	0.3061D+00	-0.3823D-03	-0.1555D-03	-0.1615D-01	0.1565D-03	-0.1769D-03	0.8997D-01	0.7577D-02	-0.5183D-01	-0.1606D+03
ENTRNMDC	0.2496D+03	-0.3118D+00	-0.1268D+00	-0.1318D+02	0.1277D+00	-0.1443D+00	0.7338D+02	0.6180D+01	-0.4227D+02	-0.1310D+06
PPAS	-0.1168D+00	0.1459D-03	0.5931D-04	0.6163D-02	-0.5972D-04	0.6748D-04	-0.3433D-01	-0.2891D-02	0.1977D-01	0.6126D+02
SURPOL	-0.5648D+02	0.7055D-01	0.2869D-01	0.2981D+01	-0.2889D-01	0.3264D-01	-0.1660D+02	-0.1398D+01	0.9564D+01	0.2963D+05
PERPA	0.1141D+01	-0.1425D-02	-0.5795D-03	-0.6022D-01	0.5836D-03	-0.6593D-03	0.3354D+00	0.2825D-01	-0.1932D+00	-0.5986D+03
PRCHOM	0.1607D+00	-0.2007D-03	-0.8162D-04	-0.8481D-02	0.8219D-04	-0.9286D-04	0.4724D-01	0.3978D-02	-0.2721D-01	-0.8431D+02
PRFEVM	-0.4577D-01	0.5718D-04	0.2325D-04	0.2416D-02	-0.2341D-04	0.2645D-04	-0.1346D-01	-0.1133D-02	0.7751D-02	0.2401D+02
HEUHM	-0.6719D+02	0.8393D-01	0.3413D-01	0.3546D+01	-0.3437D-01	0.3883D-01	-0.1975D+02	-0.1663D+01	0.1138D+02	0.3525D+05
PRMED	-0.8723D+02	0.1090D+00	0.4431D-01	0.4604D+01	-0.4462D-01	0.5041D-01	-0.2564D+02	-0.2160D+01	0.1477D+02	0.4577D+05
PRALT	-0.4544D+01	0.5676D-02	0.2308D-02	0.2398D+00	-0.2324D-02	0.2626D-02	-0.1336D+01	-0.1125D+00	0.7694D+00	0.2384D+04
PRMTRAR1	-0.2598D-03	0.3245D-06	0.1319D-06	0.1371D-04	-0.1329D-06	0.1501D-06	-0.7636D-04	-0.6431D-05	0.4399D-04	0.1363D+00
PRMMAGR1	0.4219D+00	-0.5270D-03	-0.2143D-03	-0.2227D-01	0.2158D-03	-0.2438D-03	0.1240D+00	0.1044D-01	-0.7144D-01	-0.2214D+03
WD	-0.3816D+02	0.4766D-01	0.1938D-01	0.2014D+01	-0.1952D-01	0.2205D-01	-0.1122D+02	-0.9446D+00	0.6461D+01	0.2002D+05
SAT	-0.1591D+02	0.1988D-01	0.8082D-02	0.8398D+00	-0.8138D-02	0.9195D-02	-0.4677D+01	-0.3939D+00	0.2694D+01	0.8348D+04
SHD	-0.1994D+02	0.2491D-01	0.1013D-01	0.1052D+01	-0.1020D-01	0.1152D-01	-0.5861D+01	-0.4936D+00	0.3376D+01	0.1046D+05
constant	0.1064D+00	-0.1330D-03	-0.5406D-04	-0.5618D-02	0.5444D-04	-0.6151D-04	0.3129D-01	0.2635D-02	-0.1802D-01	-0.5585D+02
X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
X(1)										
DISCEIN	0.4087D-08	-0.4028D-07	0.1479D+02	-0.1177D+03	-0.1443D+00	0.3086D+03	0.6380D+00	-0.3158D+02	-0.2242D+03	0.7872D+03
LVCEI	0.3174D-08	-0.3128D-07	0.1149D+02	-0.9143D+02	-0.1121D+00	0.2396D+03	0.4954D+00	-0.2453D+02	-0.1741D+03	0.6114D+03
P08PC	-0.2311D-08	0.2277D-07	-0.8364D+01	0.6656D+02	0.8160D-01	-0.1745D+03	-0.3607D+00	0.1785D+02	0.1268D+03	-0.4450D+03
PTDEM	-0.1619D-08	0.1595D-07	-0.5860D+01	0.4663D+02	0.5718D-01	-0.1222D+03	-0.2527D+00	0.1251D+02	0.8882D+02	-0.3118D+03
NCROUT04	-0.9143D-09	0.9011D-08	-0.3310D+01	0.2634D+02	0.3229D-01	-0.6904D+02	-0.1427D+00	0.7065D+01	0.5016D+02	-0.1761D+03
GRPOL	0.2540D-08	-0.2503D-07	0.9194D+01	-0.7316D+02	-0.8970D-01	0.1918D+03	0.3965D+00	-0.1963D+02	-0.1393D+03	0.4892D+03
STR813	-0.2678D-07	0.2639D-06	-0.9694D+02	0.7714D+03	0.9458D+00	-0.2022D+04	-0.4180D+01	0.2069D+03	0.1469D+04	-0.5158D+04
STRP	-0.9385D-07	0.9249D-06	-0.3397D+03	0.2703D+04	0.3315D+01	-0.7086D+04	-0.1465D+02	0.7252D+03	0.5149D+04	-0.1808D+05
STRCUQ	0.4872D-07	-0.4801D-06	0.1764D+03	-0.1403D+04	-0.1721D+01	0.3679D+04	0.7605D+01	-0.3765D+03	-0.2673D+04	0.9384D+04
GRVOY	-0.3679D-07	0.3626D-06	-0.1332D+03	0.1060D+04	0.1299D+01	-0.2778D+04	-0.5743D+01	0.2843D+03	0.2019D+04	-0.7087D+04
AUTPKRP	-0.1134D-09	0.1118D-08	-0.4106D+00	0.3267D+01	0.4006D-02	-0.8564D+01	-0.1771D-01	0.8765D+00	0.6223D+01	-0.2185D+02
GRMUMH	0.9080D-07	-0.8948D-06	0.3287D+03	-0.2615D+04	-0.3207D+01	0.6856D+04	0.1417D+02	-0.7016D+03	-0.4981D+04	0.1749D+05
TLK822	0.2233D-06	-0.2201D-05	0.8083D+03	-0.6432D+04	-0.7887D+01	0.1686D+05	0.3486D+02	-0.1726D+04	-0.1225D+05	0.4301D+05
RFK822	0.2149D-08	-0.2118D-07	0.7780D+01	-0.6191D+02	-0.7590D-01	0.1623D+03	0.3355D+00	-0.1661D+02	-0.1179D+03	0.4140D+03
SFK822	-0.2218D-06	0.2185D-05	-0.8028D+03	0.6388D+04	0.7832D+01	-0.1674D+05	-0.3462D+02	0.1714D+04	0.1217D+05	-0.4272D+05
CSFMR822	0.1963D-06	-0.1934D-05	0.7105D+03	-0.5654D+04	-0.6932D+01	0.1482D+05	0.3064D+02	-0.1517D+04	-0.1077D+05	0.3781D+05
LOIIND61	-0.3858D-09	0.3802D-08	-0.1397D+01	0.1111D+02	0.1363D-01	-0.2913D+02	-0.6023D-01	0.2981D+01	0.2117D+02	-0.7432D+02
LOIAS	-0.4582D-08	0.4515D-07	-0.1658D+02	0.1320D+03	0.1618D+00	-0.3459D+03	-0.7152D+00	0.3540D+02	0.2514D+03	-0.8825D+03
MOP62	0.6698D-09	-0.6601D-08	0.2425D+01	-0.1929D+02	-0.2366D-01	0.5057D+02	0.1046D+00	-0.5176D+01	-0.3675D+02	0.1290D+03
PRMVACR1	0.2162D-12	-0.2130D-11	0.7826D-03	-0.6227D-02	-0.7635D-05	0.1632D-01	0.3375D-04	-0.1671D-02	-0.1186D-01	0.4164D-01
KMPARR1	0.1000D+01	-0.9855D+01	0.3620D+10	-0.2881D+11	-0.3532D+08	0.7550D+11	0.1561D+09	-0.7727D+10	-0.5486D+11	0.1926D+12
DICR1	-0.1015D+00	0.1000D+01	-0.3673D+09	0.2923D+10	0.3584D+07	-0.7662D+10	-0.1584D+08	0.7841D+09	0.5567D+10	-0.1955D+11
PGRPKM	0.2762D-09	-0.2722D-08	0.1000D+01	-0.7958D+01	-0.9756D-02	0.2086D+02	0.4312D-01	-0.2135D+01	-0.1516D+02	0.5321D+02
PDRQ	-0.3472D-10	0.3421D-09	-0.1257D+00	0.1000D+01	0.1226D-02	-0.2621D+01	-0.5419D-02	0.2683D+00	0.1905D+01	-0.6687D+01

ENTRNMDC	-0.2831D-07	0.2790D-06	-0.1025D+03	0.8156D+03	0.1000D+01	-0.2138D+04	-0.4420D+01	0.2188D+03	0.1553D+04	-0.5454D+04
PPAS	0.1324D-10	-0.1305D-09	0.4794D-01	-0.3815D+00	-0.4678D-03	0.1000D+01	0.2067D-02	-0.1023D+00	-0.7266D+00	0.2551D+01
SURPOL	0.6406D-08	-0.6313D-07	0.2319D+02	-0.1845D+03	-0.2263D+00	0.4837D+03	0.1000D+01	-0.4950D+02	-0.3515D+03	0.1234D+04
PERPA	-0.1294D-09	0.1275D-08	-0.4685D+00	0.3728D+01	0.4571D-02	-0.9771D+01	-0.2020D-01	0.1000D+01	0.7100D+01	-0.2493D+02
PRCHOM	-0.1823D-10	0.1796D-09	-0.6598D-01	0.5250D+00	0.6437D-03	-0.1376D+01	-0.2845D-02	0.1408D+00	0.1000D+01	-0.3511D+01
PRFEVM	0.5192D-11	-0.5116D-10	0.1879D-01	-0.1495D+00	-0.1834D-03	0.3920D+00	0.8104D-03	-0.4012D-01	-0.2848D+00	0.1000D+01
HEUHM	0.7621D-08	-0.7510D-07	0.2759D+02	-0.2195D+03	-0.2692D+00	0.5754D+03	0.1190D+01	-0.5889D+02	-0.4181D+03	0.1468D+04
PRMED	0.9895D-08	-0.9751D-07	0.3582D+02	-0.2850D+03	-0.3494D+00	0.7471D+03	0.1545D+01	-0.7646D+02	-0.5428D+03	0.1906D+04
PRALT	0.5154D-09	-0.5079D-08	0.1866D+01	-0.1485D+02	-0.1820D-01	0.3891D+02	0.8045D-01	-0.3982D+01	-0.2827D+02	0.9927D+02
PRMTRAR1	0.2946D-13	-0.2904D-12	0.1067D-03	-0.8487D-03	-0.1041D-05	0.2225D-02	0.4599D-05	-0.2277D-03	-0.1616D-02	0.5675D-02
PRMMAGR1	-0.4785D-10	0.4716D-09	-0.1732D+00	0.1378D+01	0.1690D-02	-0.3613D+01	-0.7470D-02	0.3698D+00	0.2625D+01	-0.9217D+01
WD	0.4328D-08	-0.4265D-07	0.1567D+02	-0.1247D+03	-0.1528D+00	0.3268D+03	0.6756D+00	-0.3344D+02	-0.2374D+03	0.8336D+03
SAT	0.1805D-08	-0.1779D-07	0.6533D+01	-0.5199D+02	-0.6374D-01	0.1363D+03	0.2817D+00	-0.1395D+02	-0.9902D+02	0.3476D+03
SHD	0.2261D-08	-0.2229D-07	0.8186D+01	-0.6514D+02	-0.7986D-01	0.1707D+03	0.3530D+00	-0.1747D+02	-0.1241D+03	0.4356D+03
constant	-0.1207D-10	0.1190D-09	-0.4370D-01	0.3478D+00	0.4264D-03	-0.9116D+00	-0.1885D-02	0.9329D-01	0.6624D+00	-0.2325D+01
=====										
X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
=====										
DISCEIN	0.5363D+00	0.4131D+00	0.7930D+01	0.1387D+06	-0.8541D+02	0.9443D+00	0.2265D+01	0.1807D+01	-0.3385D+03	
LVCEI	0.4165D+00	0.3208D+00	0.6159D+01	0.1077D+06	-0.6633D+02	0.7334D+00	0.1759D+01	0.1404D+01	-0.2629D+03	
P08PC	-0.3032D+00	-0.2335D+00	-0.4483D+01	-0.7842D+05	0.4828D+02	-0.5339D+00	-0.1280D+01	-0.1022D+01	0.1914D+03	
PTDEM	-0.2124D+00	-0.1636D+00	-0.3141D+01	-0.5495D+05	0.3383D+02	-0.3741D+00	-0.8970D+00	-0.7159D+00	0.1341D+03	
NCROUT04	-0.1200D+00	-0.9241D-01	-0.1774D+01	-0.3103D+05	0.1911D+02	-0.2113D+00	-0.5066D+00	-0.4043D+00	0.7573D+02	
GRPOL	0.3333D+00	0.2567D+00	0.4928D+01	0.8621D+05	-0.5308D+02	0.5869D+00	0.1407D+01	0.1123D+01	-0.2104D+03	
STR813	-0.3514D+01	-0.2706D+01	-0.5196D+02	-0.9089D+06	0.5596D+03	-0.6188D+01	-0.1484D+02	-0.1184D+02	0.2218D+04	
STRP	-0.1231D+02	-0.9485D+01	-0.1821D+03	-0.3185D+07	0.1961D+04	-0.2168D+02	-0.5200D+02	-0.4150D+02	0.7774D+04	
STRCUQ	0.6393D+01	0.4924D+01	0.9453D+02	0.1654D+07	-0.1018D+04	0.1126D+02	0.2699D+02	0.2154D+02	-0.4035D+04	
GRVOY	-0.4828D+01	-0.3718D+01	-0.7139D+02	-0.1249D+07	0.7689D+03	-0.8501D+01	-0.2039D+02	-0.1627D+02	0.3047D+04	
AUTPKRP	-0.1488D-01	-0.1146D-01	-0.2201D+00	-0.3850D+04	0.2370D+01	-0.2621D-01	-0.6285D-01	-0.5016D-01	0.9395D+01	
GRMUMH	0.1191D+02	0.9177D+01	0.1762D+03	0.3082D+07	-0.1897D+04	0.2098D+02	0.5031D+02	0.4015D+02	-0.7521D+04	
TLK822	0.2930D+02	0.2257D+02	0.4333D+03	0.7579D+07	-0.4667D+04	0.5160D+02	0.1237D+03	0.9875D+02	-0.1850D+05	
RFK822	0.2820D+00	0.2172D+00	0.4170D+01	0.7294D+05	-0.4491D+02	0.4966D+00	0.1191D+01	0.9504D+00	-0.1780D+03	
SFK822	-0.2910D+02	-0.2241D+02	-0.4303D+03	-0.7527D+07	0.4634D+04	-0.5124D+02	-0.1229D+03	-0.9807D+02	0.1837D+05	
CSFMR822	0.2576D+02	0.1984D+02	0.3809D+03	0.6662D+07	-0.4102D+04	0.4535D+02	0.1088D+03	0.8680D+02	-0.1626D+05	
LOIIND61	-0.5063D-01	-0.3900D-01	-0.7487D+00	-0.1310D+05	0.8063D+01	-0.8915D-01	-0.2138D+00	-0.1706D+00	0.3196D+02	
LOIAS	-0.6012D+00	-0.4630D+00	-0.8890D+01	-0.1555D+06	0.9574D+02	-0.1059D+01	-0.2539D+01	-0.2026D+01	0.3795D+03	
MOP62	0.8789D-01	0.6770D-01	0.1300D+01	0.2273D+05	-0.1400D+02	0.1548D+00	0.3711D+00	0.2962D+00	-0.5548D+02	
PRMVACR1	0.2837D-04	0.2185D-04	0.4195D-03	0.7337D+01	-0.4518D-02	0.4995D-04	0.1198D-03	0.9560D-04	-0.1791D-01	
KMPARR1	0.1312D+09	0.1011D+09	0.1940D+10	0.3394D+14	-0.2090D+11	0.2311D+09	0.5541D+09	0.4422D+09	-0.8283D+11	
DICR1	-0.1331D+08	-0.1026D+08	-0.1969D+09	-0.3444D+13	0.2121D+10	-0.2345D+08	-0.5622D+08	-0.4487D+08	0.8405D+10	
PGRPKM	0.3625D-01	0.2792D-01	0.5360D+00	0.9376D+04	-0.5773D+01	0.6383D-01	0.1531D+00	0.1222D+00	-0.2288D+02	
PDRQ	-0.4555D-02	-0.3509D-02	-0.6736D-01	-0.1178D+04	0.7255D+00	-0.8021D-02	-0.1924D-01	-0.1535D-01	0.2875D+01	
ENTRNMDC	-0.3715D+01	-0.2862D+01	-0.5494D+02	-0.9610D+06	0.5917D+03	-0.6542D+01	-0.1569D+02	-0.1252D+02	0.2345D+04	
PPAS	0.1738D-02	0.1339D-02	0.2570D-01	0.4495D+03	-0.2768D+00	0.3060D-02	0.7338D-02	0.5857D-02	-0.1097D+01	
SURPOL	0.8406D+00	0.6474D+00	0.1243D+02	0.2174D+06	-0.1339D+03	0.1480D+01	0.3550D+01	0.2833D+01	-0.5306D+03	
PERPA	-0.1698D-01	-0.1308D-01	-0.2511D+00	-0.4392D+04	0.2704D+01	-0.2990D-01	-0.7171D-01	-0.5723D-01	0.1072D+02	
PRCHOM	-0.2392D-02	-0.1842D-02	-0.3537D-01	-0.6186D+03	0.3809D+00	-0.4212D-02	-0.1010D-01	-0.8060D-02	0.1510D+01	
PRFEVM	0.6812D-03	0.5247D-03	0.1007D-01	0.1762D+03	-0.1085D+00	0.1200D-02	0.2877D-02	0.2296D-02	-0.4300D+00	
HEUHM	0.1000D+01	0.7702D+00	0.1479D+02	0.2587D+06	-0.1593D+03	0.1761D+01	0.4223D+01	0.3370D+01	-0.6312D+03	
PRMED	0.1298D+01	0.1000D+01	0.1920D+02	0.3358D+06	-0.2068D+03	0.2286D+01	0.5482D+01	0.4376D+01	-0.8196D+03	
PRALT	0.6762D-01	0.5209D-01	0.1000D+01	0.1749D+05	-0.1077D+02	0.1191D+00	0.2856D+00	0.2279D+00	-0.4269D+02	

```

PRMTRAR1      0.3866D-05  0.2978D-05  0.5717D-04  0.1000D+01 -0.6157D-03  0.6808D-05  0.1633D-04  0.1303D-04 -0.2440D-02
PRMMAGR1     -0.6279D-02 -0.4836D-02 -0.9285D-01 -0.1624D+04  0.1000D+01 -0.1106D-01 -0.2651D-01 -0.2116D-01  0.3964D+01
WD            0.5679D+00  0.4374D+00  0.8398D+01  0.1469D+06 -0.9044D+02  0.1000D+01  0.2398D+01  0.1914D+01 -0.3585D+03
SAT           0.2368D+00  0.1824D+00  0.3502D+01  0.6125D+05 -0.3772D+02  0.4170D+00  0.1000D+01  0.7981D+00 -0.1495D+03
SHD           0.2967D+00  0.2285D+00  0.4388D+01  0.7675D+05 -0.4726D+02  0.5225D+00  0.1253D+01  0.1000D+01 -0.1873D+03
constant     -0.1584D-02 -0.1220D-02 -0.2343D-01 -0.4098D+03  0.2523D+00 -0.2790D-02 -0.6690D-02 -0.5339D-02  0.1000D+01

```

Log-likelihood

```

- initial value :      462.8160
- final value   :      523.6226
- ratio test    :      121.6133

```

```

Pearson-r2      :      0.3635
Pearson-r2 bar  :      0.2565
Pseudo-(1)-r2   :      0.5066
Pseudo-(1)-r2 bar :    0.4237
Std-error of (w) :      0.0092

```

Number of observations first-last obs.no.

```

- sample       :    313           1 -    313
- estimation   :    300          14 -    313

```

CPU TIME: 0.75 sec

Output file 9: MTC_bc1au.txt

```

&CARD1
NOBS   =      313,
NC      =      14,
NF      =      313,
NFP     =      313,
NOBEL   =      12,
NM       =      0,
NSTEP   =      500,
EPSI    = 1.0000000000000000E-007,
WGHT    = 1.0000000000000000
/
&CARD2
NB      =      38,
NRO     =      8,
NSL     =      20,
NGF     =      0,
MAXF    =      0,
NGV     =      1,
MAXV    =      18,
NLY     =      2,
NDM     =     -1,
NLE     =      0,
ND       =      0
/
&CARD3
NCOR    =      0,
NRES    =      0,
NPW     =      0,
NGUVW   =      0,
NPDQL   =      0,
NCOV    =      0,
NEY     =      0,
VARNAME = mt_bc1au ,
N VARIANT =      30
/

```

Working space used : 32360 out of 500000

```

autocorrelation of orders:      4      5      6      7
      8      10      11      12
rho initial values: 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000 0.0000000000000000E+000 0.0000000000000000E+000
0.0000000000000000E+000 0.0000000000000000E+000 0.0000000000000000E+000

```

group (x) without box-cox transformation
variable no.

```

1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

```

```

group          1 (estimated lambda(x))
initial value:  1.00000000000000
variable no.
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

lambda(y) is set equal to lambda(x) of group no.          1
lambda(y) initial value:  1.00000000000000
upper limit for y  0.00000000000000E+000

```

no.	variable	minimum	mean	maximum	null obs.
	MTC	0.20044D-01	0.50402D-01	0.81761D-01	0
1	DISCEIN	0.00000D+00	0.43911D+00	0.10000D+01	94
2	LVCEI	0.00000D+00	0.24521D+00	0.10000D+01	236
3	P08PC	0.00000D+00	0.50160D+00	0.10000D+01	156
4	PTDEM	0.00000D+00	0.37700D+00	0.10000D+01	195
5	NCROUT04	0.00000D+00	0.28754D-01	0.10000D+01	304
6	GRPOL	0.00000D+00	0.10117D-01	0.23333D+01	307
7	STR813	0.00000D+00	0.45367D+00	0.20000D+02	293
8	STRP	0.00000D+00	0.12141D+00	0.19000D+02	308
9	STRCUQ	0.00000D+00	0.12460D+01	0.31000D+02	294
10	GRVOY	0.00000D+00	0.75719D+00	0.31000D+02	302
11	AUTPKRP	0.00000D+00	0.31163D+00	0.54087D+00	13
12	GRMUMH	0.00000D+00	0.16454D+00	0.24000D+02	309
13	TLK822	0.00000D+00	0.19317D+03	0.53000D+03	1
14	RFK822	0.00000D+00	0.77046D+00	0.29867D+01	5
15	SFK822	0.00000D+00	0.24747D+01	0.17965D+02	142
16	CSFMR822	0.00000D+00	0.23227D+02	0.14760D+03	141
17	LOIIND61	0.00000D+00	0.82428D+00	0.10000D+01	55
18	LOIAS	0.00000D+00	0.18530D+00	0.10000D+01	255
19	MOP62	0.00000D+00	0.78594D+00	0.10000D+01	67
20	PRMVACR1	0.00000D+00	0.43504D-04	0.48002D-03	253
21	KMPARR1	0.11783D+10	0.25744D+10	0.38693D+10	0
22	DICR1	0.60930D+07	0.59407D+08	0.15587D+09	0
23	PGRPKM	0.11936D-01	0.16007D-01	0.27000D-01	0
24	PDRQ	0.78203D-01	0.92417D-01	0.15274D+00	0
25	ENTRNMDC	0.39465D+02	0.62122D+02	0.83728D+02	0
26	PPAS	0.10000D+00	0.15846D+00	0.26970D+00	0
27	SURPOL	0.51602D+01	0.81696D+01	0.11785D+02	0
28	PERPA	0.11028D+01	0.13012D+01	0.14674D+01	0
29	PRCHOM	0.16994D-01	0.38548D-01	0.73681D-01	0
30	PRFEVM	0.88112D-02	0.11482D-01	0.14224D-01	0
31	HEUHM	0.36900D+02	0.40353D+02	0.42700D+02	0
32	PRMED	0.18388D+01	0.29627D+01	0.47363D+01	0
33	PRALT	0.40673D+00	0.71215D+00	0.13955D+01	0
34	PRMTRAR1	0.17024D-04	0.53396D-04	0.99802D-04	0
35	PRMMAGR1	0.10680D+00	0.14477D+00	0.20568D+00	0
36	WD	0.19000D+02	0.20853D+02	0.23000D+02	0
37	SAT	0.40000D+01	0.43482D+01	0.50000D+01	0
38	SHD	0.40000D+01	0.52332D+01	0.70000D+01	0
39	constant	0.10000D+01	0.10000D+01	0.10000D+01	0

INITIAL ESTIMATES

VARIABLE	LAMBDA (X)		COEFFICIENT	MEAN (X)	STD-ERROR	STUDENT-T	E L A S T I C I T Y		E L A S T I C I T Y	
	type	group					y (sample)	E (y)	y (sample)	E (y)
								SIGMA (y)		SIGMA (y)
								GAMMA (y)		GAMMA (y)
							-first obs	14	-first obs	302
							-last obs	313	-last obs	313
1 DISCEIN	NL	0	-0.1644136D-01	0.4581333D+00	0.1202552D-01	-1.3672	-0.1503	-0.1503	-0.5227	-0.5200
								0.0000		-0.0001
								-0.4710		39.9435
2 LVCEI	NL	0	0.3976291D-02	0.2558333D+00	0.3367644D-02	1.1807	0.0203	0.0203	0.1264	0.1258
								0.0000		0.0000
								0.0636		-9.6602
3 P08PC	NL	0	0.2780730D-02	0.5233333D+00	0.3521749D-02	0.7896	0.0290	0.0290	0.0884	0.0879
								0.0000		0.0000
								0.0910		-6.7557
4 PTDEM	NL	0	0.1080417D-02	0.3933333D+00	0.4030267D-02	0.2681	0.0085	0.0085	0.0343	0.0342
								0.0000		0.0000
								0.0266		-2.6248
5 NCROUT04	NL	0	0.3942382D-02	0.3000000D-01	0.5194080D-02	0.7590	0.0024	0.0024	0.0940	0.0935
								0.0000		0.0000
								0.0074		-7.1834
6 GRPOL	NL	0	0.2772785D-03	0.1055554D-01	0.3442142D-02	0.0806	0.0001	0.0001	0.0000	0.0000
								0.0000		0.0000
								0.0002		0.0000
7 STR813	NL	0	0.6141818D-04	0.4733333D+00	0.2039050D-03	0.3012	0.0006	0.0006	0.0021	0.0021
								0.0000		0.0000
								0.0018		-0.1616
8 STRP	NL	0	-0.6099612D-03	0.1266667D+00	0.3793869D-03	-1.6078	-0.0015	-0.0015	-0.0129	-0.0129
								0.0000		0.0000
								-0.0048		0.9879
9 STRCUQ	NL	0	-0.1368860D-03	0.1300000D+01	0.1007679D-03	-1.3584	-0.0035	-0.0036	-0.0054	-0.0054
								0.0000		0.0000
								-0.0111		0.4157
10 GRVOY	NL	0	-0.1233574D-03	0.7900000D+00	0.1166231D-03	-1.0577	-0.0019	-0.0019	0.0000	0.0000
								0.0000		0.0000
								-0.0061		0.0000
11 AUTPKRP	NL	0	-0.3482785D-01	0.3251368D+00	0.2639072D-01	-1.3197	-0.2259	-0.2260	-0.5689	-0.5660
								0.0000		-0.0001
								-0.7081		43.4749
12 GRMUMH	NL	0	0.8577160D-04	0.1716667D+00	0.2708173D-03	0.3167	0.0003	0.0003	0.0000	0.0000
								0.0000		0.0000

13	TLK822	NL	0	-0.8779714D-05	0.1928373D+03	0.6564014D-05	-1.3376	-0.0338	0.0009 -0.0338 0.0000 -0.1059	-0.0526	-0.0523 0.0000 4.0207
14	RFK822	NL	0	0.5857409D-03	0.7708521D+00	0.1213815D-02	0.4826	0.0090	0.0090 0.0000 0.0282	0.0141	0.0140 0.0000 -1.0771
15	SFK822	NL	0	-0.1332484D-03	0.2509268D+01	0.2596072D-03	-0.5133	-0.0067	-0.0067 0.0000 -0.0209	-0.0069	-0.0069 0.0000 0.5295
16	CSFMR822	NL	0	-0.8153382D-05	0.2353299D+02	0.3474076D-04	-0.2347	-0.0038	-0.0038 0.0000 -0.0120	-0.0052	-0.0052 0.0000 0.3964
17	LOIIND61	NL	0	-0.1354219D-01	0.8600000D+00	0.3354272D-02	-4.0373	-0.2323	-0.2324 0.0000 -0.7282	-0.4305	-0.4283 -0.0001 32.9001
18	LOIAS	NL	0	-0.1111051D-01	0.1933333D+00	0.3672912D-02	-3.0250	-0.0428	-0.0429 0.0000 -0.1343	-0.3532	-0.3514 0.0000 26.9925
19	MOP62	NL	0	0.1501591D-01	0.8200000D+00	0.3523795D-02	4.2613	0.2456	0.2458 0.0000 0.7699	0.4774	0.4749 0.0001 -36.4805
20	PRMVACR1	NL	0	0.3715843D+01	0.4349227D-04	0.2108944D+02	0.1762	0.0032	0.0032 0.0000 0.0101	0.0058	0.0058 0.0000 -0.4447
21	KMPARR1	EL	1	0.8647347D-11	0.2620907D+10	0.8417074D-11	1.0274	0.4521	0.4523 0.0000 1.4172	0.8470	0.8426 0.0001 -64.7224
22	DICR1	EL	1	-0.3080699D-10	0.6151215D+08	0.5551642D-10	-0.5549	-0.0378	-0.0378 0.0000 -0.1185	-0.1039	-0.1033 0.0000 7.9370
23	PGRPKM	EL	1	0.1125254D+01	0.1602677D-01	0.7971959D+00	1.4115	0.3597	0.3599 0.0000 1.1277	0.9300	0.9251 0.0001 -71.0657
24	PDRQ	EL	1	-0.6269585D+00	0.9268908D-01	0.2002441D+00	-3.1310	-1.1592	-1.1599 0.0000 -3.6338	-2.9900	-2.9744 -0.0004 228.4846
25	ENTRNMD	EL	1	-0.1403011D-03	0.6295400D+02	0.2602865D-03	-0.5390	-0.1762	-0.1763 0.0000 -0.5523	-0.3597	-0.3578 0.0000 27.4885
26	PPAS	EL	1	0.2799625D+00	0.1609208D+00	0.1737282D+00	1.6115	0.8987	0.8992 0.0000 2.8171	2.3181	2.3060 0.0003 -177.1416
27	SURPOL	EL	1	-0.1655996D-02	0.8257199D+01	0.9098402D-03	-1.8201	-0.2728	-0.2729 0.0000 -0.8550	-0.4055	-0.4034 0.0000 30.9845
28	PERPA	EL	1	0.1046606D-02	0.1297782D+01	0.1464261D-01	0.0715	0.0271	0.0271 0.0000 0.0849	0.0483	0.0481 0.0000 -3.6942
29	PRCHOM	EL	1	-0.3399207D+00	0.3883502D-01	0.8828924D-01	-3.8501	-0.2633	-0.2635 0.0000 -0.8255	-0.6192	-0.6159 -0.0001 47.3150
30	PRFEVM	EL	1	-0.1081899D+01	0.1139801D-01	0.1224263D+01	-0.8837	-0.2460	-0.2461 0.0000 -0.7711	-0.3598	-0.3579 0.0000 27.4953
31	HEUHM	EL	1	0.1450018D-02	0.4031700D+02	0.9216178D-03	1.5733	1.1662	1.1668 0.0000 3.6556	1.7456	1.7365 0.0002 -133.3949
32	PRMED	EL	1	-0.1630611D-02	0.3003970D+01	0.2129763D-02	-0.7656	-0.0977	-0.0978 0.0000 -0.3063	-0.1919	-0.1909 0.0000 14.6624
33	PRALT	EL	1	-0.2006685D-01	0.7172662D+00	0.7941477D-02	-2.5268	-0.2871	-0.2873 0.0000 -0.9000	-0.4911	-0.4886 -0.0001 37.5309
34	PRMTRARI	EL	1	-0.2456285D+03	0.5226830D-04	0.3230098D+03	-0.7604	-0.2561	-0.2562 0.0000 -0.8028	-0.3340	-0.3323 0.0000 25.5269
35	PRMMAGR1	EL	1	0.2110497D+00	0.1441229D+00	0.6503219D-01	3.2453	0.6068	0.6071 0.0000 1.9020	1.0206	1.0153 0.0001 -77.9900
36	WD	EL	1	0.1246300D-03	0.2086000D+02	0.7692432D-03	0.1620	0.0519	0.0519 0.0000 0.1626	0.0832	0.0828 0.0000 -6.3584
37	SAT	EL	1	-0.2194492D-02	0.4346667D+01	0.1236396D-02	-1.7749	-0.1903	-0.1904 0.0000 -0.5965	-0.3023	-0.3008 0.0000 23.1028
38	SHD	EL	1	0.1701103D-03	0.5226667D+01	0.9105212D-03	0.1868	0.0177	0.0177 0.0000 0.0556	0.0275	0.0273 0.0000 -2.1008
39	constant	NL	0	-0.2470444D+03	0.1000000D+01	0.3231968D+03	-0.7644	-4928.0949	-4930.7672 -0.1360 -15447.8056	-7854.0232	-7813.1281 -0.9434 600183.0511

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	-0.1644136D-01	-0.1644135D-01	-0.6537464D-07	0.1843782D-03
2 LVCEI	0.3976291D-02	0.3976288D-02	0.1581065D-07	-0.4459128D-04
3 P08PC	0.2780730D-02	0.2780728D-02	0.1105682D-07	-0.3118391D-04

4	PTDEM	0.1080417D-02	0.1080417D-02	0.4295988D-08	-0.1211611D-04
5	NCROUT04	0.3942382D-02	0.3942380D-02	0.1567582D-07	-0.4421102D-04
6	GRPOL	0.2772785D-03	0.2772783D-03	0.1102523D-08	-0.3109481D-05
7	STR813	0.6141818D-04	0.6141814D-04	0.2442128D-09	-0.6887613D-06
8	STRP	-0.6099612D-03	-0.6099609D-03	-0.2425346D-08	0.6840282D-05
9	STRCUQ	-0.1368860D-03	-0.1368859D-03	-0.5442900D-09	0.1535079D-05
10	GRVOY	-0.1233574D-03	-0.1233573D-03	-0.4904974D-09	0.1383366D-05
11	AUTPKRP	-0.3482785D-01	-0.3482783D-01	-0.1384835D-06	0.3905696D-03
12	GRMUMH	0.8577160D-04	0.8577155D-04	0.3410476D-09	-0.9618676D-06
13	TLK822	-0.8779714D-05	-0.8779709D-05	-0.3491016D-10	0.9845827D-07
14	RFK822	0.5857409D-03	0.5857405D-03	0.2329040D-08	-0.6568668D-05
15	SFK822	-0.1332484D-03	-0.1332483D-03	-0.5298264D-09	0.1494287D-05
16	CSFMR822	-0.8153382D-05	-0.8153377D-05	-0.3241972D-10	0.9143439D-07
17	LOIIND61	-0.1354219D-01	-0.1354219D-01	-0.5384688D-07	0.1518661D-03
18	LOIAS	-0.1111051D-01	-0.1111050D-01	-0.4417793D-07	0.1245965D-03
19	MOP62	0.1501591D-01	0.1501590D-01	0.5970670D-07	-0.1683927D-03
20	PRMVACR1	0.3715843D+01	0.3715841D+01	0.1477505D-04	-0.4167054D-01
21	KMPARR1	0.8647347D-11	0.8647342D-11	0.3438384D-16	-0.9697386D-13
22	DICR1	-0.3080699D-10	-0.3080697D-10	-0.1224957D-15	0.3454785D-12
23	PGRPKM	0.1125254D+01	0.1125253D+01	0.4474269D-05	-0.1261893D-01
24	PDRQ	-0.6269585D+00	-0.6269582D+00	-0.2492931D-05	0.7030895D-02
25	ENTRNMD	-0.1403011D-03	-0.1403010D-03	-0.5578695D-09	0.1573377D-05
26	PPAS	0.2799625D+00	0.2799623D+00	0.1113195D-05	-0.3139580D-02
27	SURPOL	-0.1655996D-02	-0.1655995D-02	-0.6584619D-08	0.1857082D-04
28	PERPA	0.1046606D-02	0.1046606D-02	0.4161547D-08	-0.1173695D-04
29	PRCHOM	-0.3399207D+00	-0.3399205D+00	-0.1351603D-05	0.3811970D-02
30	PRFEVM	-0.1081899D+01	-0.1081899D+01	-0.4301880D-05	0.1213273D-01
31	HEUHM	0.1450018D-02	0.1450017D-02	0.5765606D-08	-0.1626092D-04
32	PRMED	-0.1630611D-02	-0.1630610D-02	-0.6483685D-08	0.1828615D-04
33	PRALT	-0.2006685D-01	-0.2006684D-01	-0.7979040D-07	0.2250354D-03
34	PRMTRAR1	-0.2456285D+03	-0.2456284D+03	-0.9766755D-03	0.2754550D+01
35	PRMMAGR1	0.2110497D+00	0.2110496D+00	0.8391823D-06	-0.2366773D-02
36	WD	0.1246300D-03	0.1246299D-03	0.4955575D-09	-0.1397637D-05
37	SAT	-0.2194492D-02	-0.2194491D-02	-0.8725804D-08	0.2460967D-04
38	SHD	0.1701103D-03	0.1701102D-03	0.6763978D-09	-0.1907667D-05
39	constant	-0.2470444D+03	-0.2470442D+03	-0.9823052D-03	0.2770427D+01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2515D+06	-0.8917D+02
SIGMA(y)	0.3976D-05	0.1000D+01	-0.3546D-03
GAMMA(y)	-0.1121D-01	-0.2820D+04	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.3626D+05	0.3192D+00
SIGMA(y)	0.2758D-04	0.1000D+01	0.8803D-05
GAMMA(y)	0.3133D+01	0.1136D+06	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	-0.2418D+00	-0.1691D+00	-0.6571D-01	-0.2398D+00	-0.1686D-01	-0.3736D-02	0.3710D-01	0.8326D-02	0.7503D-02
LVCEI		-0.4135D+01	0.1000D+01	0.6993D+00	0.2717D+00	0.9915D+00	0.6973D-01	0.1545D-01	-0.1534D+00	-0.3443D-01	-0.3102D-01
P08PC		-0.5913D+01	0.1430D+01	0.1000D+01	0.3885D+00	0.1418D+01	0.9971D-01	0.2209D-01	-0.2194D+00	-0.4923D-01	-0.4436D-01
PTDEM		-0.1522D+02	0.3680D+01	0.2574D+01	0.1000D+01	0.3649D+01	0.2566D+00	0.5685D-01	-0.5646D+00	-0.1267D+00	-0.1142D+00
NCROUT04		-0.4170D+01	0.1009D+01	0.7053D+00	0.2741D+00	0.1000D+01	0.7033D-01	0.1558D-01	-0.1547D+00	-0.3472D-01	-0.3129D-01
GRPOL		-0.5930D+02	0.1434D+02	0.1003D+02	0.3897D+01	0.1422D+02	0.1000D+01	0.2215D+00	-0.2200D+01	-0.4937D+00	-0.4449D+00
STR813		-0.2677D+03	0.6474D+02	0.4528D+02	0.1759D+02	0.6419D+02	0.4515D+01	0.1000D+01	-0.9931D+01	-0.2229D+01	-0.2008D+01
STRP		0.2695D+02	-0.6519D+01	-0.4559D+01	-0.1771D+01	-0.6463D+01	-0.4546D+00	-0.1007D+00	0.1000D+01	0.2244D+00	0.2022D+00
STRCUQ		0.1201D+03	-0.2905D+02	-0.2031D+02	-0.7893D+01	-0.2880D+02	-0.2026D+01	-0.4487D+00	0.4456D+01	0.1000D+01	0.9012D+00
GRVOY		0.1333D+03	-0.3223D+02	-0.2254D+02	-0.8758D+01	-0.3196D+02	-0.2248D+01	-0.4979D+00	0.4945D+01	0.1110D+01	0.1000D+01
AUTPKRP		0.4721D+00	-0.1142D+00	-0.7984D-01	-0.3102D-01	-0.1132D+00	-0.7961D-02	-0.1763D-02	0.1751D-01	0.3930D-02	0.3542D-02
GRMUMH		-0.1917D+03	0.4636D+02	0.3242D+02	0.1260D+02	0.4596D+02	0.3233D+01	0.7161D+00	-0.7111D+01	-0.1596D+01	-0.1438D+01
TLK822		0.1873D+04	-0.4529D+03	-0.3167D+03	-0.1231D+03	-0.4490D+03	-0.3158D+02	-0.6995D+01	0.6947D+02	0.1559D+02	0.1405D+02
RFK822		-0.2807D+02	0.6788D+01	0.4747D+01	0.1845D+01	0.6731D+01	0.4734D+00	0.1049D+00	-0.1041D+01	-0.2337D+00	-0.2106D+00
SFK822		0.1234D+03	-0.2984D+02	-0.2087D+02	-0.8108D+01	-0.2959D+02	-0.2081D+01	-0.4609D+00	0.4578D+01	0.1027D+01	0.9258D+00
CSFMR822		0.2017D+04	-0.4877D+03	-0.3411D+03	-0.1325D+03	-0.4835D+03	-0.3401D+02	-0.7533D+01	0.7481D+02	0.1679D+02	0.1513D+02
LOIIND61		0.1214D+01	-0.2936D+00	-0.2053D+00	-0.7978D-01	-0.2911D+00	-0.2048D-01	-0.4535D-02	0.4504D-01	0.1011D-01	0.9109D-02
LOIAS		0.1480D+01	-0.3579D+00	-0.2503D+00	-0.9724D-01	-0.3548D+00	-0.2496D-01	-0.5528D-02	0.5490D-01	0.1232D-01	0.1110D-01
MOP62		-0.1095D+01	0.2648D+00	0.1852D+00	0.7195D-01	0.2625D+00	0.1847D-01	0.4090D-02	-0.4062D-01	-0.9116D-02	-0.8215D-02
PRMVACR1		-0.4425D-02	0.1070D-02	0.7483D-03	0.2908D-03	0.1061D-02	0.7462D-04	0.1653D-04	-0.1642D-03	-0.3684D-04	-0.3320D-04
KMPARR1		-0.1901D+10	0.4598D+09	0.3216D+09	0.1249D+09	0.4559D+09	0.3207D+08	0.7103D+07	-0.7054D+08	-0.1583D+08	-0.1427D+08
DICR1		0.5337D+09	-0.1291D+09	-0.9026D+08	-0.3507D+08	-0.1280D+09	-0.9001D+07	-0.1994D+07	0.1980D+08	0.4443D+07	0.4004D+07
PGRPKM		-0.1461D-01	0.3534D-02	0.2471D-02	0.9602D-03	0.3504D-02	0.2464D-03	0.5458D-04	-0.5421D-03	-0.1216D-03	-0.1096D-03
PDRQ		0.2622D-01	-0.6342D-02	-0.4435D-02	-0.1723D-02	-0.6288D-02	-0.4423D-03	-0.9796D-04	0.9729D-03	0.2183D-03	0.1968D-03
ENTRNMDC		0.1172D+03	-0.2834D+02	-0.1982D+02	-0.7701D+01	-0.2810D+02	-0.1976D+01	-0.4378D+00	0.4348D+01	0.9757D+00	0.8792D+00
PPAS		-0.5873D-01	0.1420D-01	0.9933D-02	0.3859D-02	0.1408D-01	0.9904D-03	0.2194D-03	-0.2179D-02	-0.4889D-03	-0.4406D-03
SURPOL		0.9928D+01	-0.2401D+01	-0.1679D+01	-0.6524D+00	-0.2381D+01	-0.1674D+00	-0.3709D-01	0.3683D+00	0.8266D-01	0.7449D-01
PERPA		-0.1571D+02	0.3799D+01	0.2657D+01	0.1032D+01	0.3767D+01	0.2649D+00	0.5868D-01	-0.5828D+00	-0.1308D+00	-0.1179D+00
PRCHOM		0.4837D-01	-0.1170D-01	-0.8181D-02	-0.3178D-02	-0.1160D-01	-0.8157D-03	-0.1807D-03	0.1794D-02	0.4027D-03	0.3629D-03
PRFEVM		0.1520D-01	-0.3675D-02	-0.2570D-02	-0.9986D-03	-0.3644D-02	-0.2563D-03	-0.5677D-04	0.5638D-03	0.1265D-03	0.1140D-03
HEUHM		-0.1134D+02	0.2742D+01	0.1918D+01	0.7451D+00	0.2719D+01	0.1912D+00	0.4236D-01	-0.4207D+00	-0.9440D-01	-0.8507D-01
PRMED		0.1008D+02	-0.2439D+01	-0.1705D+01	-0.6626D+00	-0.2418D+01	-0.1700D+00	-0.3767D-01	0.3741D+00	0.8395D-01	0.7565D-01
PRALT		0.8193D+00	-0.1982D+00	-0.1386D+00	-0.5384D-01	-0.1965D+00	-0.1382D-01	-0.3061D-02	0.3040D-01	0.6821D-02	0.6147D-02
PRMTRAR1		0.6694D-04	-0.1619D-04	-0.1132D-04	-0.4399D-05	-0.1605D-04	-0.1129D-05	-0.2500D-06	0.2483D-05	0.5573D-06	0.5022D-06
PRMMAGR1		-0.7790D-01	0.1884D-01	0.1318D-01	0.5119D-02	0.1868D-01	0.1314D-02	0.2910D-03	-0.2890D-02	-0.6486D-03	-0.5845D-03
WD		-0.1319D+03	0.3190D+02	0.2231D+02	0.8669D+01	0.3163D+02	0.2225D+01	0.4928D+00	-0.4894D+01	-0.1098D+01	-0.9898D+00
SAT		0.7492D+01	-0.1812D+01	-0.1267D+01	-0.4923D+00	-0.1796D+01	-0.1264D+00	-0.2799D-01	0.2780D+00	0.6238D-01	0.5621D-01
SHD		-0.9665D+02	0.2337D+02	0.1635D+02	0.6351D+01	0.2318D+02	0.1630D+01	0.3610D+00	-0.3586D+01	-0.8047D+00	-0.7252D+00
constant		0.6655D-04	-0.1610D-04	-0.1126D-04	-0.4373D-05	-0.1596D-04	-0.1122D-05	-0.2486D-06	0.2469D-05	0.5541D-06	0.4993D-06
X(l)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
DISCEIN		0.2118D+01	-0.5217D-02	0.5340D-03	-0.3563D-01	0.8104D-02	0.4959D-03	0.8237D+00	0.6758D+00	-0.9133D+00	-0.2260D+03
LVCEI		-0.8759D+01	0.2157D-01	-0.2208D-02	0.1473D+00	-0.3351D-01	-0.2050D-02	-0.3406D+01	-0.2794D+01	0.3776D+01	0.9345D+03
P08PC		-0.1252D+02	0.3084D-01	-0.3157D-02	0.2106D+00	-0.4792D-01	-0.2932D-02	-0.4870D+01	-0.3996D+01	0.5400D+01	0.1336D+04
PTDEM		-0.3224D+02	0.7939D-01	-0.8126D-02	0.5421D+00	-0.1233D+00	-0.7547D-02	-0.1253D+02	-0.1028D+02	0.1390D+02	0.3439D+04
NCROUT04		-0.8834D+01	0.2176D-01	-0.2227D-02	0.1486D+00	-0.3380D-01	-0.2068D-02	-0.3435D+01	-0.2818D+01	0.3809D+01	0.9425D+03
GRPOL		-0.1256D+03	0.3093D+00	-0.3166D-01	0.2112D+01	-0.4806D+00	-0.2941D-01	-0.4884D+02	-0.4007D+02	0.5415D+02	0.1340D+05

STR813	-0.5671D+03	0.1397D+01	-0.1429D+00	0.9537D+01	-0.2170D+01	-0.1328D+00	-0.2205D+03	-0.1809D+03	0.2445D+03	0.6050D+05
STRP	0.5710D+02	-0.1406D+00	0.1439D-01	-0.9603D+00	0.2185D+00	0.1337D-01	0.2220D+02	0.1822D+02	-0.2462D+02	-0.6092D+04
STRCUQ	0.2544D+03	-0.6266D+00	0.6414D-01	-0.4279D+01	0.9734D+00	0.5956D-01	0.9893D+02	0.8117D+02	-0.1097D+03	-0.2715D+05
GRVOY	0.2823D+03	-0.6953D+00	0.7117D-01	-0.4748D+01	0.1080D+01	0.6610D-01	0.1098D+03	0.9007D+02	-0.1217D+03	-0.3012D+05
AUTPKRP	0.1000D+01	-0.2463D-02	0.2521D-03	-0.1682D-01	0.3826D-02	0.2341D-03	0.3888D+00	0.3190D+00	-0.4311D+00	-0.1067D+03
GRMUMH	-0.4061D+03	0.1000D+01	-0.1024D+00	0.6829D+01	-0.1554D+01	-0.9506D-01	-0.1579D+03	-0.1295D+03	0.1751D+03	0.4332D+05
TLK822	0.3967D+04	-0.9769D+01	0.1000D+01	-0.6672D+02	0.1518D+02	0.9287D+00	0.1542D+04	0.1265D+04	-0.1710D+04	-0.4232D+06
RFK822	-0.5946D+02	0.1464D+00	-0.1499D-01	0.1000D+01	-0.2275D+00	-0.1392D-01	-0.2312D+02	-0.1897D+02	0.2564D+02	0.6344D+04
SFK822	0.2614D+03	-0.6437D+00	0.6589D-01	-0.4396D+01	0.1000D+01	0.6119D-01	0.1016D+03	0.8338D+02	-0.1127D+03	-0.2789D+05
CSFMR822	0.4272D+04	-0.1052D+02	0.1077D+01	-0.7184D+02	0.1634D+02	0.1000D+01	0.1661D+04	0.1363D+04	-0.1842D+04	-0.4557D+06
LOIIND61	0.2572D+01	-0.6334D-02	0.6483D-03	-0.4325D-01	0.9840D-02	0.6021D-03	0.1000D+01	0.8204D+00	-0.1109D+01	-0.2744D+03
LOIAS	0.3135D+01	-0.7720D-02	0.7902D-03	-0.5272D-01	0.1199D-01	0.7338D-03	0.1219D+01	0.1000D+01	-0.1352D+01	-0.3344D+03
MOP62	-0.2319D+01	0.5712D-02	-0.5847D-03	0.3901D-01	-0.8874D-02	-0.5430D-03	-0.9019D+00	-0.7399D+00	0.1000D+01	0.2475D+03
PRMVACR1	-0.9373D-02	0.2308D-04	-0.2363D-05	0.1576D-03	-0.3586D-04	-0.2194D-05	-0.3644D-02	-0.2990D-02	0.4041D-02	0.1000D+01
KMPARR1	-0.4028D+10	0.9919D+07	-0.1015D+07	0.6774D+08	-0.1541D+08	-0.9429D+06	-0.1566D+10	-0.1285D+10	0.1736D+10	0.4297D+12
DICR1	0.1131D+10	-0.2784D+07	0.2850D+06	-0.1901D+08	0.4325D+07	0.2647D+06	0.4396D+09	0.3606D+09	-0.4874D+09	-0.1206D+12
PGRPKM	-0.3095D-01	0.7622D-04	-0.7802D-05	0.5205D-03	-0.1184D-03	-0.7246D-05	-0.1203D-01	-0.9874D-02	0.1334D-01	0.3302D+01
PDRQ	0.5555D-01	-0.1368D-03	0.1400D-04	-0.9343D-03	0.2125D-03	0.1300D-04	0.2160D-01	0.1772D-01	-0.2395D-01	-0.5927D+01
ENTRNMDC	0.2482D+03	-0.6113D+00	0.6258D-01	-0.4175D+01	0.9497D+00	0.5811D-01	0.9652D+02	0.7919D+02	-0.1070D+03	-0.2648D+05
PPAS	-0.1244D+00	0.3064D-03	-0.3136D-04	0.2092D-02	-0.4760D-03	-0.2912D-04	-0.4837D-01	-0.3969D-01	0.5364D-01	0.1327D+02
SURPOL	0.2103D+02	-0.5179D-01	0.5302D-02	-0.3537D+00	0.8046D-01	0.4924D-02	0.8178D+01	0.6709D+01	-0.9068D+01	-0.2244D+04
PERPA	-0.3328D+02	0.8195D-01	-0.8389D-02	0.5597D+00	-0.1273D+00	-0.7790D-02	-0.1294D+02	-0.1062D+02	0.1435D+02	0.3550D+04
PRCHOM	0.1025D+00	-0.2523D-03	0.2583D-04	-0.1723D-02	0.3920D-03	0.2399D-04	0.3984D-01	0.3269D-01	-0.4417D-01	-0.1093D+02
PRFEVM	0.3219D-01	-0.7928D-04	0.8115D-05	-0.5414D-03	0.1232D-03	0.7536D-05	0.1252D-01	0.1027D-01	-0.1388D-01	-0.3435D+01
HEUHM	-0.2402D+02	0.5915D-01	-0.6055D-02	0.4040D+00	-0.9189D-01	-0.5623D-02	-0.9339D+01	-0.7662D+01	0.1036D+02	0.2563D+04
PRMED	0.2136D+02	-0.5260D-01	0.5384D-02	-0.3592D+00	0.8172D-01	0.5000D-02	0.8305D+01	0.6814D+01	-0.9209D+01	-0.2279D+04
PRALT	0.1736D+01	-0.4274D-02	0.4375D-03	-0.2919D-01	0.6640D-02	0.4063D-03	0.6749D+00	0.5537D+00	-0.7483D+00	-0.1852D+03
PRMTRAR1	0.1418D-03	-0.3492D-06	0.3574D-07	-0.2385D-05	0.5425D-06	0.3319D-07	0.5513D-04	0.4523D-04	-0.6113D-04	-0.1513D-01
PRMMAGR1	-0.1650D+00	0.4064D-03	-0.4160D-04	0.2775D-02	-0.6314D-03	-0.3863D-04	-0.6417D-01	-0.5264D-01	0.7115D-01	0.1761D+02
WD	-0.2794D+03	0.6882D+00	-0.7045D-01	0.4700D+01	-0.1069D+01	-0.6542D-01	-0.1087D+03	-0.8915D+02	0.1205D+03	0.2981D+05
SAT	0.1587D+02	-0.3908D-01	0.4001D-02	-0.2669D+00	0.6072D-01	0.3715D-02	0.6171D+01	0.5063D+01	-0.6843D+01	-0.1693D+04
SHD	-0.2047D+03	0.5042D+00	-0.5161D-01	0.3443D+01	-0.7833D+00	-0.4793D-01	-0.7961D+02	-0.6531D+02	0.8827D+02	0.2184D+05
constant	0.1410D-03	-0.3472D-06	0.3554D-07	-0.2371D-05	0.5394D-06	0.3300D-07	0.5482D-04	0.4497D-04	-0.6078D-04	-0.1504D-01
=====										
X(k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
=====										
X(l)										
=====										
DISCEIN	-0.5260D-09	0.1874D-08	-0.6844D+02	0.3813D+02	0.8533D-02	-0.1703D+02	0.1007D+00	-0.6366D-01	0.2067D+02	0.6580D+02
LVCEI	0.2175D-08	-0.7748D-08	0.2830D+03	-0.1577D+03	-0.3528D-01	0.7041D+02	-0.4165D+00	0.2632D+00	-0.8549D+02	-0.2721D+03
P08PC	0.3110D-08	-0.1108D-07	0.4047D+03	-0.2255D+03	-0.5045D-01	0.1007D+03	-0.5955D+00	0.3764D+00	-0.1222D+03	-0.3891D+03
PTDEM	0.8004D-08	-0.2851D-07	0.1041D+04	-0.5803D+03	-0.1299D+00	0.2591D+03	-0.1533D+01	0.9687D+00	-0.3146D+03	-0.1001D+04
NCROUT04	0.2193D-08	-0.7814D-08	0.2854D+03	-0.1590D+03	-0.3559D-01	0.7101D+02	-0.4200D+00	0.2655D+00	-0.8622D+02	-0.2744D+03
GRPOL	0.3119D-07	-0.1111D-06	0.4058D+04	-0.2261D+04	-0.5060D+00	0.1010D+04	-0.5972D+01	0.3775D+01	-0.1226D+04	-0.3902D+04
STR813	0.1408D-06	-0.5016D-06	0.1832D+05	-0.1021D+05	-0.2284D+01	0.4558D+04	-0.2696D+02	0.1704D+02	-0.5535D+04	-0.1762D+05
STRP	-0.1418D-07	0.5051D-07	-0.1845D+04	0.1028D+04	0.2300D+00	-0.4590D+03	0.2715D+01	-0.1716D+01	0.5573D+03	0.1774D+04
STRCUQ	-0.6317D-07	0.2251D-06	-0.8220D+04	0.4580D+04	0.1025D+01	-0.2045D+04	0.1210D+02	-0.7646D+01	0.2483D+04	0.7904D+04
GRVOY	-0.7010D-07	0.2497D-06	-0.9122D+04	0.5082D+04	0.1137D+01	-0.2270D+04	0.1342D+02	-0.8484D+01	0.2756D+04	0.8770D+04
AUTPKRP	-0.2483D-09	0.8846D-09	-0.3231D+02	0.1800D+02	0.4028D-02	-0.8038D+01	0.4755D-01	-0.3005D-01	0.9760D+01	0.3106D+02
GRMUMH	0.1008D-06	-0.3592D-06	0.1312D+05	-0.7310D+04	-0.1636D+01	0.3264D+04	-0.1931D+02	0.1220D+02	-0.3963D+04	-0.1261D+05
TLK822	-0.9849D-06	0.3509D-05	-0.1282D+06	0.7141D+05	0.1598D+02	-0.3189D+05	0.1886D+03	-0.1192D+03	0.3872D+05	0.1232D+06
RFK822	0.1476D-07	-0.5259D-07	0.1921D+04	-0.1070D+04	-0.2395D+00	0.4780D+03	-0.2827D+01	0.1787D+01	-0.5803D+03	-0.1847D+04
SFK822	-0.6490D-07	0.2312D-06	-0.8445D+04	0.4705D+04	0.1053D+01	-0.2101D+04	0.1243D+02	-0.7855D+01	0.2551D+04	0.8119D+04

CSFMR822	-0.1061D-05	0.3778D-05	-0.1380D+06	0.7690D+05	0.1721D+02	-0.3434D+05	0.2031D+03	-0.1284D+03	0.4169D+05	0.1327D+06
LOIIND61	-0.6385D-09	0.2275D-08	-0.8309D+02	0.4630D+02	0.1036D-01	-0.2067D+02	0.1223D+00	-0.7728D-01	0.2510D+02	0.7989D+02
LOIAS	-0.7783D-09	0.2773D-08	-0.1013D+03	0.5643D+02	0.1263D-01	-0.2520D+02	0.1490D+00	-0.9420D-01	0.3059D+02	0.9738D+02
MOP62	0.5759D-09	-0.2052D-08	0.7494D+02	-0.4175D+02	-0.9343D-02	0.1864D+02	-0.1103D+00	0.6970D-01	-0.2264D+02	-0.7205D+02
PRMVACR1	0.2327D-11	-0.8291D-11	0.3028D+00	-0.1687D+00	-0.3776D-04	0.7534D-01	-0.4457D-03	0.2817D-03	-0.9148D-01	-0.2912D+00
KMPARR1	0.1000D+01	-0.3563D+01	0.1301D+12	-0.7250D+11	-0.1622D+08	0.3238D+11	-0.1915D+09	0.1210D+09	-0.3931D+11	-0.1251D+12
DICR1	-0.2807D+00	0.1000D+01	-0.3653D+11	0.2035D+11	0.4554D+07	-0.9088D+10	0.5375D+08	-0.3397D+08	0.1103D+11	0.3512D+11
PGRPKM	0.7685D-11	-0.2738D-10	0.1000D+01	-0.5572D+00	-0.1247D-03	0.2488D+00	-0.1472D-02	0.9301D-03	-0.3021D+00	-0.9615D+00
PDRQ	-0.1379D-10	0.4914D-10	-0.1795D+01	0.1000D+01	0.2238D-03	-0.4465D+00	0.2641D-02	-0.1669D-02	0.5422D+00	0.1726D+01
ENTRNMDC	-0.6163D-07	0.2196D-06	-0.8020D+04	0.4469D+04	0.1000D+01	-0.1995D+04	0.1180D+02	-0.7460D+01	0.2423D+04	0.7711D+04
PPAS	0.3089D-10	-0.1100D-09	0.4019D+01	-0.2239D+01	-0.5011D-03	0.1000D+01	-0.5915D-02	0.3738D-02	-0.1214D+01	-0.3864D+01
SURPOL	-0.5222D-08	0.1860D-07	-0.6795D+03	0.3786D+03	0.8472D-01	-0.1691D+03	0.1000D+01	-0.6320D+00	0.2053D+03	0.6533D+03
PERPA	0.8262D-08	-0.2944D-07	0.1075D+04	-0.5990D+03	-0.1341D+00	0.2675D+03	-0.1582D+01	0.1000D+01	-0.3248D+03	-0.1034D+04
PRCHOM	-0.2544D-10	0.9063D-10	-0.3310D+01	0.1844D+01	0.4127D-03	-0.8236D+00	0.4872D-02	-0.3079D-02	0.1000D+01	0.3183D+01
PRFEVM	-0.7993D-11	0.2847D-10	-0.1040D+01	0.5795D+00	0.1297D-03	-0.2588D+00	0.1531D-02	-0.9674D-03	0.3142D+00	0.1000D+01
HEUHM	0.5964D-08	-0.2125D-07	0.7760D+03	-0.4324D+03	-0.9676D-01	0.1931D+03	-0.1142D+01	0.7218D+00	-0.2344D+03	-0.7461D+03
PRMED	-0.5303D-08	0.1889D-07	-0.6901D+03	0.3845D+03	0.8604D-01	-0.1717D+03	0.1016D+01	-0.6418D+00	0.2085D+03	0.6635D+03
PRALT	-0.4309D-09	0.1535D-08	-0.5608D+02	0.3124D+02	0.6992D-02	-0.1395D+02	0.8252D-01	-0.5216D-01	0.1694D+02	0.5391D+02
PRMTRAR1	-0.3520D-13	0.1254D-12	-0.4581D-02	0.2552D-02	0.5712D-06	-0.1140D-02	0.6742D-05	-0.4261D-05	0.1384D-02	0.4405D-02
PRMMAGR1	0.4097D-10	-0.1460D-09	0.5332D+01	-0.2971D+01	-0.6648D-03	0.1327D+01	-0.7846D-02	0.4959D-02	-0.1611D+01	-0.5126D+01
WD	0.6938D-07	-0.2472D-06	0.9029D+04	-0.5031D+04	-0.1126D+01	0.2246D+04	-0.1329D+02	0.8398D+01	-0.2727D+04	-0.8681D+04
SAT	-0.3940D-08	0.1404D-07	-0.5128D+03	0.2857D+03	0.6393D-01	-0.1276D+03	0.7546D+00	-0.4769D+00	0.1549D+03	0.4930D+03
SHD	0.5083D-07	-0.1811D-06	0.6615D+04	-0.3686D+04	-0.8248D+00	0.1646D+04	-0.9735D+01	0.6153D+01	-0.1998D+04	-0.6360D+04
constant	-0.3500D-13	0.1247D-12	-0.4555D-02	0.2538D-02	0.5679D-06	-0.1133D-02	0.6703D-05	-0.4237D-05	0.1376D-02	0.4379D-02
X(k)	HEUHM	PRMED	PRALT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant	
X(1)										
DISCEIN	-0.8819D-01	0.9918D-01	0.1221D+01	0.1494D+05	-0.1284D+02	-0.7580D-02	0.1335D+00	-0.1035D-01	0.1503D+05	
LVCEI	0.3647D+00	-0.4101D+00	-0.5047D+01	-0.6177D+05	0.5308D+02	0.3134D-01	-0.5519D+00	0.4278D-01	-0.6213D+05	
P08PC	0.5215D+00	-0.5864D+00	-0.7216D+01	-0.8833D+05	0.7590D+02	0.4482D-01	-0.7892D+00	0.6117D-01	-0.8884D+05	
PTDEM	0.1342D+01	-0.1509D+01	-0.1857D+02	-0.2273D+06	0.1953D+03	0.1154D+00	-0.2031D+01	0.1574D+00	-0.2287D+06	
NCROUT04	0.3678D+00	-0.4136D+00	-0.5090D+01	-0.6230D+05	0.5353D+02	0.3161D-01	-0.5566D+00	0.4315D-01	-0.6266D+05	
GRPOL	0.5229D+01	-0.5881D+01	-0.7237D+02	-0.8859D+06	0.7611D+03	0.4495D+00	-0.7914D+01	0.6135D+00	-0.8910D+06	
STR813	0.2361D+02	-0.2655D+02	-0.3267D+03	-0.3999D+07	0.3436D+04	0.2029D+01	-0.3573D+02	0.2770D+01	-0.4022D+07	
STRP	-0.2377D+01	0.2673D+01	0.3290D+02	0.4027D+06	-0.3460D+03	-0.2043D+00	0.3598D+01	-0.2789D+00	0.4050D+06	
STRCUQ	-0.1059D+02	0.1191D+02	0.1466D+03	0.1794D+07	-0.1542D+04	-0.9105D+00	0.1603D+02	-0.1243D+01	0.1805D+07	
GRVOY	-0.1175D+02	0.1322D+02	0.1627D+03	0.1991D+07	-0.1711D+04	-0.1010D+01	0.1779D+02	-0.1379D+01	0.2003D+07	
AUTPKRP	-0.4163D-01	0.4682D-01	0.5762D+00	0.7053D+04	-0.6060D+01	-0.3578D-02	0.6301D-01	-0.4884D-02	0.7093D+04	
GRMUMH	0.1691D+02	-0.1901D+02	-0.2340D+03	-0.2864D+07	0.2461D+04	0.1453D+01	-0.2559D+02	0.1983D+01	-0.2880D+07	
TLK822	-0.1652D+03	0.1857D+03	0.2286D+04	0.2798D+08	-0.2404D+05	-0.1420D+02	0.2500D+03	-0.1938D+02	0.2814D+08	
RFK822	0.2476D+01	-0.2784D+01	-0.3426D+02	-0.4193D+06	0.3603D+03	0.2128D+00	-0.3747D+01	0.2904D+00	-0.4218D+06	
SFK822	-0.1088D+02	0.1224D+02	0.1506D+03	0.1843D+07	-0.1584D+04	-0.9353D+00	0.1647D+02	-0.1277D+01	0.1854D+07	
CSFMR822	-0.1778D+03	0.2000D+03	0.2461D+04	0.3013D+08	-0.2588D+05	-0.1529D+02	0.2692D+03	-0.2086D+02	0.3030D+08	
LOIIND61	-0.1071D+00	0.1204D+00	0.1482D+01	0.1814D+05	-0.1558D+02	-0.9203D-02	0.1620D+00	-0.1256D-01	0.1824D+05	
LOIAS	-0.1305D+00	0.1468D+00	0.1806D+01	0.2211D+05	-0.1900D+02	-0.1122D-01	0.1975D+00	-0.1531D-01	0.2224D+05	
MOP62	0.9657D-01	-0.1086D+00	-0.1336D+01	-0.1636D+05	0.1406D+02	0.8300D-02	-0.1461D+00	0.1133D-01	-0.1645D+05	
PRMVACR1	0.3902D-03	-0.4388D-03	-0.5400D-02	-0.6610D+02	0.5680D-01	0.3354D-04	-0.5906D-03	0.4578D-04	-0.6648D+02	
KMPARR1	0.1677D+09	-0.1886D+09	-0.2321D+10	-0.2841D+14	0.2441D+11	0.1441D+08	-0.2538D+09	0.1967D+08	-0.2857D+14	
DICR1	-0.4707D+08	0.5293D+08	0.6514D+09	0.7973D+13	-0.6851D+10	-0.4046D+07	0.7123D+08	-0.5522D+07	0.8019D+13	
PGRPKM	0.1289D-02	-0.1449D-02	-0.1783D-01	-0.2183D+03	0.1876D+00	0.1108D-03	-0.1950D-02	0.1512D-03	-0.2195D+03	
PDRQ	-0.2313D-02	0.2601D-02	0.3201D-01	0.3918D+03	-0.3366D+00	-0.1988D-03	0.3500D-02	-0.2713D-03	0.3940D+03	

ENTRNMDC	-0.1034D+02	0.1162D+02	0.1430D+03	0.1751D+07	-0.1504D+04	-0.8883D+00	0.1564D+02	-0.1212D+01	0.1761D+07
PPAS	0.5179D-02	-0.5824D-02	-0.7168D-01	-0.8774D+03	0.7539D+00	0.4452D-03	-0.7839D-02	0.6076D-03	-0.8824D+03
SURPOL	-0.8756D+00	0.9847D+00	0.1212D+02	0.1483D+06	-0.1274D+03	-0.7526D-01	0.1325D+01	-0.1027D+00	0.1492D+06
PERPA	0.1385D+01	-0.1558D+01	-0.1917D+02	-0.2347D+06	0.2017D+03	0.1191D+00	-0.2097D+01	0.1625D+00	-0.2360D+06
PRCHOM	-0.4266D-02	0.4797D-02	0.5903D-01	0.7226D+03	-0.6209D+00	-0.3666D-03	0.6456D-02	-0.5004D-03	0.7268D+03
PRFEVM	-0.1340D-02	0.1507D-02	0.1855D-01	0.2270D+03	-0.1951D+00	-0.1152D-03	0.2028D-02	-0.1572D-03	0.2283D+03
HEUHM	0.1000D+01	-0.1125D+01	-0.1384D+02	-0.1694D+06	0.1455D+03	0.8595D-01	-0.1513D+01	0.1173D+00	-0.1704D+06
PRMED	-0.8892D+00	0.1000D+01	0.1231D+02	0.1506D+06	-0.1294D+03	-0.7643D-01	0.1346D+01	-0.1043D+00	0.1515D+06
PRALT	-0.7226D-01	0.8126D-01	0.1000D+01	0.1224D+05	-0.1052D+02	-0.6211D-02	0.1094D+00	-0.8477D-02	0.1231D+05
PRMTRAR1	-0.5903D-05	0.6639D-05	0.8170D-04	0.1000D+01	-0.8592D-03	-0.5074D-06	0.8934D-05	-0.6926D-06	0.1006D+01
PRMMAGR1	0.6871D-02	-0.7726D-02	-0.9508D-01	-0.1164D+04	0.1000D+01	0.5905D-03	-0.1040D-01	0.8060D-03	-0.1171D+04
WD	0.1163D+02	-0.1308D+02	-0.1610D+03	-0.1971D+07	0.1693D+04	0.1000D+01	-0.1761D+02	0.1365D+01	-0.1982D+07
SAT	-0.6608D+00	0.7430D+00	0.9144D+01	0.1119D+06	-0.9617D+02	-0.5679D-01	0.1000D+01	-0.7752D-01	0.1126D+06
SHD	0.8524D+01	-0.9586D+01	-0.1180D+03	-0.1444D+07	0.1241D+04	0.7326D+00	-0.1290D+02	0.1000D+01	-0.1452D+07
constant	-0.5869D-05	0.6600D-05	0.8123D-04	0.9943D+00	-0.8543D-03	-0.5045D-06	0.8883D-05	-0.6886D-06	0.1000D+01

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.5012979D-01	0.5010263D-01
STD.ERROR	0.1237506D-01	0.1003902D-01
SKEWNESS	-0.0474346	-0.5399241

E(y) at the means : 0.5010260D-01

Sig(y) at the means : 0.7223922D-02

C.o.V. at the means : 0.1441826

Gam(y) at the means : -0.0001793

Pearson-R2 : 0.6581075

Pearson-R2 bar : 0.6083300

Pseudo-(1)-R2 : 0.6581022

Pseudo-(1)-R2 bar : 0.6083240

Error Variance : 0.5218442D-04

Log-likelihood : 0.1053427D+04

initialization cards for control routine follow - - id card - no. parameters , no. steps , step size
minimization tolerance - starting values of parameters - relative uncertainties of parameters (error estimates) -
and starting direction (relative parameter increments for 1st step)

9	500	0.1D+01	0.1D-06						
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.10000D+01
0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01	0.10000D+01
0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00

first entry to fcn , parameters of current step follow - - f,x(i)

-0.3626540204D+03	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00	0.00000D+00
	0.10000D+01								

new absolute minimum , parameters for fcn entry 5 follow - - f,x(i)

-0.3780695917D+03	-0.20216D+00	-0.21447D-01	-0.11795D-02	-0.19133D+00	-0.92792D-01	-0.92423D-01	0.74878D-02	0.13325D+00	
	0.92401D+00								

new absolute minimum , parameters for fcn entry 8 follow - - f,x(i)

-0.3806035947D+03	-0.24937D+00	-0.69403D-01	-0.90808D-01	-0.22695D+00	-0.15622D+00	-0.42670D-01	-0.51884D-01	0.10351D+00	
	0.85756D+00								

new absolute minimum , parameters for fcn entry 10 follow - - f,x(i)

-0.3810575619D+03	-0.26370D+00	-0.94717D-01	-0.10206D+00	-0.24271D+00	-0.13796D+00	-0.54143D-01	-0.43824D-01	0.61426D-01	
	0.81395D+00								

new absolute minimum , parameters for fcn entry 13 follow - - f,x(i)

-0.3813210852D+03	-0.24364D+00	-0.10513D+00	-0.90545D-01	-0.24176D+00	-0.15024D+00	-0.73838D-01	-0.46829D-01	0.48346D-01	
	0.74861D+00								

new absolute minimum , parameters for fcn entry 16 follow - - f,x(i)

-0.3816502870D+03	-0.24119D+00	-0.96415D-01	-0.73231D-01	-0.22230D+00	-0.14232D+00	-0.59614D-01	-0.34935D-01	0.52971D-01	
	0.63814D+00								

new absolute minimum , parameters for fcn entry 18 follow - - f,x(i)

-0.3816749459D+03	-0.23939D+00	-0.85456D-01	-0.75397D-01	-0.22519D+00	-0.13855D+00	-0.60829D-01	-0.38819D-01	0.51383D-01	
	0.62873D+00								

```

new absolute minimum , parameters for fcn entry 20 follow - - f,x(i)
-0.3816753767D+03 -0.23928D+00 -0.85986D-01 -0.75717D-01 -0.22493D+00 -0.13743D+00 -0.61297D-01 -0.39873D-01 0.52219D-01
0.62847D+00

new absolute minimum , parameters for fcn entry 22 follow - - f,x(i)
-0.3816754693D+03 -0.23891D+00 -0.86046D-01 -0.76281D-01 -0.22498D+00 -0.13729D+00 -0.61465D-01 -0.39422D-01 0.52574D-01
0.62839D+00

new absolute minimum , parameters for fcn entry 25 follow - - f,x(i)
-0.3816795995D+03 -0.23833D+00 -0.84262D-01 -0.72760D-01 -0.22314D+00 -0.13547D+00 -0.64638D-01 -0.37268D-01 0.52876D-01
0.62787D+00

new absolute minimum , parameters for fcn entry 27 follow - - f,x(i)
-0.3816799338D+03 -0.23758D+00 -0.84466D-01 -0.71932D-01 -0.22417D+00 -0.13499D+00 -0.64031D-01 -0.37188D-01 0.53058D-01
0.62782D+00

new absolute minimum , parameters for fcn entry 30 follow - - f,x(i)
-0.3816799839D+03 -0.23754D+00 -0.84629D-01 -0.71836D-01 -0.22427D+00 -0.13507D+00 -0.64283D-01 -0.37253D-01 0.52746D-01
0.62642D+00

new absolute minimum , parameters for fcn entry 31 follow - - f,x(i)
-0.3816799846D+03 -0.23748D+00 -0.84614D-01 -0.71822D-01 -0.22423D+00 -0.13506D+00 -0.64283D-01 -0.37255D-01 0.52720D-01
0.62640D+00

new absolute minimum , parameters for fcn entry 32 follow - - f,x(i)
-0.3816799846D+03 -0.23748D+00 -0.84612D-01 -0.71820D-01 -0.22423D+00 -0.13506D+00 -0.64284D-01 -0.37256D-01 0.52720D-01
0.62640D+00

new absolute minimum , parameters for fcn entry 33 follow - - f,x(i)
-0.3816799846D+03 -0.23748D+00 -0.84612D-01 -0.71820D-01 -0.22423D+00 -0.13506D+00 -0.64284D-01 -0.37256D-01 0.52720D-01
0.62640D+00

```

the function (fcn) has not improved by 0.10000D-06 after 3 steps which include a minimum - -

therefore the run has been terminated

```

-0.3816799846D+03 -0.23748D+00 -0.84612D-01 -0.71820D-01 -0.22423D+00 -0.13506D+00 -0.64284D-01 -0.37256D-01 0.52720D-01
0.62640D+00

```

all numbers of last entry refer to final pt. of run

the lowest value of the function (fcn) was -0.3816799846D+03 for entry 33 - - x(i) follows

```

-0.23748D+00 -0.84612D-01 -0.71820D-01 -0.22423D+00 -0.13506D+00 -0.64284D-01 -0.37256D-01 0.52720D-01 0.62640D+00

```

run statistics follow - -

nfcn= 37 nst= 15

Mean probability of y to be at the lower (upper) limit
if lambda(y) is positive (negative) = 0.0000

Estimation Sample : 14 313

	OBSERVED Y	FITTED E(Y)
MEAN	0.5012979D-01	0.5013291D-01
STD.ERROR	0.1237506D-01	0.1029189D-01
SKEWNESS	-0.0474346	-0.3620460

E(y) at the means : 0.4931285D-01

Sig(y) at the means : 0.6812294D-02

C.o.V. at the means : 0.1381444

Gam(y) at the means : 0.1552066

Pearson-R2 : 0.6929249

Pearson-R2 bar : 0.6356530

Pseudo-(1)-R2 : 0.8258567

Pseudo-(1)-R2 bar : 0.7933776

Error Variance : 0.4411478D-03

Log-likelihood : 0.1072456D+04

FINAL ESTIMATES

VARIABLE	LAMBDA(X)	COEFFICIENT	GRADIENT	STD-ERROR	STUDENT-T	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)	E L A S T I C I T Y y(sample)	E(y) SIGMA(y) GAMMA(y)
	type	group				-first obs	14	-first obs	302
						-last obs	313	-last obs	313
1 DISCEIN	NL	0	-0.7526053D-01	0.5420940D-01	0.4796257D-01	-1.5692	-0.2248	-0.2266	-0.6581
					0.2883074D-01	-2.6104		-0.0851	-0.2482
								0.1434	0.4165
2 LVCEI	NL	0	0.4268660D-02	0.2978958D-01	0.1001518D-01	0.4262	0.0071	0.0072	0.0373
					0.9594711D-02	0.4449		0.0027	0.0141
								-0.0045	-0.0236
3 P08PC	NL	0	0.4569731D-02	0.6207966D-01	0.1059482D-01	0.4313	0.0156	0.0157	0.0400
					0.1055314D-01	0.4330		0.0059	0.0151
								-0.0099	-0.0253

4	PTDEM	NL	0	0.1111167D-01	0.4638680D-01	0.1149864D-01 0.1133556D-01	0.9663 0.9802	0.0285	0.0287 0.0108 -0.0182	0.0970	0.0972 0.0366 -0.0615
5	NCROUT04	NL	0	0.1591180D-01	0.2532710D-02	0.1944855D-01 0.1596269D-01	0.8181 0.9968	0.0031	0.0031 0.0012 -0.0020	0.1042	0.1044 0.0394 -0.0660
6	GRPOL	NL	0	0.5900072D-02	0.1274352D-02	0.3519572D-01 0.3503741D-01	0.1676 0.1684	0.0004	0.0004 0.0002 -0.0003	0.0000	0.0000 0.0000 0.0000
7	STR813	NL	0	0.1348421D-03	0.5639021D-01	0.1028275D-02 0.1022734D-02	0.1311 0.1318	0.0004	0.0004 0.0002 -0.0003	0.0013	0.0013 0.0005 -0.0008
8	STRP	NL	0	-0.2568923D-02	0.1456490D-01	0.2633716D-02 0.2162405D-02	-0.9754 -1.1880	-0.0021	-0.0021 -0.0008 0.0014	-0.0150	-0.0150 -0.0056 0.0095
9	STRCUQ	NL	0	-0.4015955D-03	0.1542046D+00	0.4485547D-03 0.3593476D-03	-0.8953 -1.1176	-0.0034	-0.0034 -0.0013 0.0022	-0.0044	-0.0044 -0.0017 0.0028
10	GRVOY	NL	0	-0.2381533D-03	0.9532343D-01	0.5143680D-03 0.4786950D-03	-0.4630 -0.4975	-0.0012	-0.0012 -0.0005 0.0008	0.0000	0.0000 0.0000 0.0000
11	AUTPKRP	NL	0	-0.4511804D-01	0.3868727D-01	0.8446625D-01 0.7059105D-01	-0.5342 -0.6391	-0.0956	-0.0964 -0.0362 0.0610	-0.2024	-0.2027 -0.0765 0.1283
12	GRMUMH	NL	0	-0.2537561D-03	0.2071394D-01	0.9662848D-03 0.9398003D-03	-0.2626 -0.2700	-0.0003	-0.0003 -0.0001 0.0002	0.0000	0.0000 0.0000 0.0000
13	TLK822	NL	0	-0.5589035D-04	0.2327806D+02	0.4544255D-04 0.2254849D-04	-1.2299 -2.4787	-0.0703	-0.0708 -0.0266 0.0448	-0.0920	-0.0921 -0.0347 0.0583
14	RFK822	NL	0	-0.7755534D-05	0.9302449D-01	0.4030742D-02 0.4028663D-02	-0.0019 -0.0019	0.0000	0.0000 0.0000 0.0000	-0.0001	-0.0001 0.0000 0.0000
15	SFK822	NL	0	-0.7102820D-03	0.3032444D+00	0.9251412D-03 0.7890465D-03	-0.7678 -0.9002	-0.0116	-0.0117 -0.0044 0.0074	-0.0101	-0.0102 -0.0038 0.0064
16	CSFMR822	NL	0	-0.3737798D-04	0.2839097D+01	0.1022143D-03 0.1017576D-03	-0.3657 -0.3673	-0.0057	-0.0058 -0.0022 0.0037	-0.0065	-0.0065 -0.0025 0.0041
17	LOIIND61	NL	0	-0.3305622D-01	0.1027082D+00	0.2003707D-01 0.8148112D-02	-1.6498 -4.0569	-0.1854	-0.1869 -0.0702 0.1182	-0.2886	-0.2891 -0.1090 0.1829
18	LOIAS	NL	0	-0.3336271D-01	0.2224466D-01	0.2265155D-01 0.1121527D-01	-1.4729 -2.9748	-0.0421	-0.0424 -0.0159 0.0268	-0.2913	-0.2917 -0.1100 0.1846
19	MOP62	NL	0	0.5122771D-01	0.9788291D-01	0.3312947D-01 0.9047351D-02	1.5463 5.6622	0.2739	0.2761 0.1037 -0.1747	0.4472	0.4480 0.1690 -0.2835
20	PRMVACR1	NL	0	0.1008873D+03	0.5242137D-05	0.1032329D+03 0.7410583D+02	0.9773 1.3614	0.0286	0.0288 0.0108 -0.0183	0.0434	0.0435 0.0164 -0.0275
21	KMPARR1	EL	1	0.1477554D-06	0.1515220D+06	0.7343323D-06 0.8485683D-07	0.2012 1.7412	0.7647	0.7708 0.2895 -0.4878	1.1330	1.1348 0.4280 -0.7182
22	DICR1	EL	1	-0.3027859D-07	0.1364676D+05	0.1936382D-06 0.1643363D-06	-0.1564 -0.1842	-0.0149	-0.0151 -0.0057 0.0095	-0.0281	-0.0282 -0.0106 0.0178
23	PGRPKM	EL	1	0.5690518D+00	-0.1782955D+00	0.5168903D+00 0.5155003D+00	1.1009 1.1039	0.2786	0.2808 0.1055 -0.1777	0.5050	0.5058 0.1908 -0.3201
24	PDRQ	EL	1	-0.9055222D+00	-0.1495045D+00	0.3233062D+00 0.2558788D+00	-2.8008 -3.5389	-1.3308	-1.3415 -0.5039 0.8490	-2.4091	-2.4129 -0.9101 1.5270
25	ENTRNMDC	EL	1	-0.3234317D-02	0.2372750D+01	0.5958963D-02 0.3277284D-02	-0.5428 -0.9869	-0.2824	-0.2847 -0.1069 0.1802	-0.4417	-0.4424 -0.1669 0.2800
26	PPAS	EL	1	0.3988818D+00	-0.1319988D+00	0.2918467D+00 0.2743326D+00	1.3668 1.4540	0.8282	0.8349 0.3136 -0.5283	1.4993	1.5017 0.5664 -0.9503
27	SURPOL	EL	1	-0.1885387D-01	0.5260383D+00	0.1968689D-01 0.6451737D-02	-0.9577 -2.9223	-0.4613	-0.4650 -0.1747 0.2943	-0.5913	-0.5922 -0.2234 0.3748
28	PERPA	EL	1	0.4052002D-01	0.3401022D-01	0.4612568D-01 0.3861491D-01	0.8785 1.0493	0.3111	0.3136 0.1178 -0.1984	0.4470	0.4477 0.1689 -0.2833
29	PRCHOM	EL	1	-0.8571181D-01	-0.1678185D+00	0.1025018D+00 0.1022480D+00	-0.8362 -0.8383	-0.0730	-0.0736 -0.0277 0.0466	-0.1248	-0.1250 -0.0471 0.0791
30	PRFEVM	EL	1	-0.7085738D+00	-0.1809679D+00	0.6146418D+00 0.5623719D+00	-1.1528 -1.2600	-0.2802	-0.2824 -0.1061 0.1787	-0.3555	-0.3561 -0.1343 0.2254
31	HEUHM	EL	1	0.6868440D-02	0.1759662D+01	0.1273989D-01 0.1184348D-01	0.5391 0.5799	0.4537	0.4574 0.1718 -0.2894	0.5841	0.5851 0.2207 -0.3703
32	PRMED	EL	1	-0.7032577D-02	0.1884150D+00	0.1268414D-01 0.1146404D-01	-0.5544 -0.6134	-0.0913	-0.0921 -0.0346 0.0583	-0.1394	-0.1396 -0.0527 0.0883
33	PRALT	EL	1	-0.7417922D-01	-0.3737904D-01	0.5174000D-01 0.2805873D-01	-1.4337 -2.6437	-0.3928	-0.3959 -0.1487 0.2506	-0.5498	-0.5506 -0.2077 0.3485
34	PRMTRAR1	EL	1	0.5960969D+01	-0.1922419D+00	0.2601571D+02 0.2575850D+02	0.2291 0.2314	0.0808	0.0815 0.0306 -0.0516	0.0954	0.0956 0.0361 -0.0605
35	PRMMAGR1	EL	1	0.3572666D+00	-0.1354810D+00	0.1304243D+00 0.1048086D+00	2.7393 3.4088	0.6923	0.6979 0.2621 -0.4416	0.9588	0.9603 0.3622 -0.6077
36	WD	EL	1	-0.1193832D-02	0.1098507D+01	0.7784348D-02 0.7696021D-02	-0.1534 -0.1551	-0.0522	-0.0526 -0.0198 0.0333	-0.0702	-0.0703 -0.0265 0.0445
37	SAT	EL	1	-0.1141897D-01	0.2903531D+00	0.1195690D-01	-0.9550	-0.1869	-0.1884	-0.2498	-0.2502

					0.7081684D-02	-1.6125		-0.0708	-0.0944
								0.1192	0.1583
38 SHD	EL	1	-0.1980693D-02	0.3488217D+00	0.5539625D-02	-0.3576	-0.0364	-0.0367	-0.0480
					0.5009404D-02	-0.3954		-0.0138	-0.0181
								0.0232	0.0304
39 constant	NL	0	0.7445575D+01	0.1206695D+00	0.4130271D+02	0.1803	48.5459	48.9376	65.1071
					0.4119313D+02	0.1807		18.3816	24.5572
								-30.9699	-41.2030
Autocorrelation									
40 rho 4			-0.2331157D+00	0.7164290D-05	0.7692586D-01	-3.0304			
					0.7655512D-01	-3.0451			
41 rho 5			-0.8441046D-01	0.6217937D-05	0.6266940D-01	-1.3469			
					0.6211225D-01	-1.3590			
42 rho 6			-0.7169647D-01	0.1693037D-04	0.6353761D-01	-1.1284			
					0.6352063D-01	-1.1287			
43 rho 7			-0.2205484D+00	0.2290954D-04	0.6734296D-01	-3.2750			
					0.6637366D-01	-3.3228			
44 rho 8			-0.1342457D+00	0.2776309D-04	0.6913786D-01	-1.9417			
					0.6912795D-01	-1.9420			
45 rho 10			-0.6419538D-01	0.2717165D-04	0.5787735D-01	-1.1092			
					0.5759666D-01	-1.1146			
46 rho 11			-0.3723915D-01	0.2477531D-04	0.6424539D-01	-0.5796			
					0.6418560D-01	-0.5802			
47 rho 12			0.5267104D-01	0.1633587D-04	0.6636325D-01	0.7937			
					0.6507974D-01	0.8093			
Box-cox on (x)									
48 lambda(x) 1 = lambda(y)			0.6263958D+00	0.1962997D+01	0.1950495D+00	3.2115			
						-1.9154			
Residual (w)									
49 error variance			0.4411478D-03	-0.5377387D-10	0.5220837D-03	0.8450			
					0.4381902D-04	10.0675			

LAMBDA TYPE SYMBOL:
NL = NO LAMBDA
FL = FIXED LAMBDA
EL = ESTIMATED LAMBDA

Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
with respect to the Independent Variables at the sample means

Variable	Der.y(sample)	Der.E(y)	Der.SIGMA(y)	Der.GAMMA(y)
1 DISCEIN	-0.2459901D-01	-0.2439338D-01	-0.1265747D-02	0.4858688D-01
2 LVCEI	0.1395218D-02	0.1383555D-02	0.7179117D-04	-0.2755772D-02
3 P08PC	0.1493623D-02	0.1481138D-02	0.7685465D-04	-0.2950138D-02
4 PTDEM	0.3631866D-02	0.3601506D-02	0.1868783D-03	-0.7173500D-02
5 NCROUT04	0.5200796D-02	0.5157320D-02	0.2676078D-03	-0.1027238D-01
6 GRPOL	0.1928447D-02	0.1912327D-02	0.9922858D-04	-0.3808983D-02
7 STR813	0.4407334D-04	0.4370492D-04	0.2267802D-05	-0.8705171D-04
8 STRP	-0.8396564D-03	-0.8326374D-03	-0.4320467D-04	0.1658452D-02
9 STRCUQ	-0.1312621D-03	-0.1301648D-03	-0.6754114D-05	0.2592630D-03
10 GRVOY	-0.7784074D-04	-0.7719004D-04	-0.4005309D-05	0.1537476D-03
11 AUTPKRP	-0.1474690D-01	-0.1462362D-01	-0.7588042D-03	0.2912741D-01
12 GRMUMH	-0.8294057D-04	-0.8224724D-04	-0.4267721D-05	0.1638205D-03
13 TLK822	-0.1826784D-04	-0.1811513D-04	-0.9399750D-06	0.3608183D-04
14 RFK822	-0.2534908D-05	-0.2513718D-05	-0.1304341D-06	0.5006837D-05
15 SFK822	-0.2321567D-03	-0.2302160D-03	-0.1194566D-04	0.4585456D-03
16 CSFMR822	-0.1221705D-04	-0.1211492D-04	-0.6286302D-06	0.2413057D-04
17 LOIIND61	-0.1080447D-01	-0.1071415D-01	-0.5559460D-03	0.2134051D-01
18 LOIAS	-0.1090465D-01	-0.1081350D-01	-0.5611007D-03	0.2153838D-01
19 MOP62	0.1674385D-01	0.1660388D-01	0.8615578D-03	-0.3307171D-01
20 PRMVACRI	0.3297518D+02	0.3269952D+02	0.1696743D+01	-0.6513110D+02
21 KMPARR1	0.1462585D-10	0.1450358D-10	0.7525755D-12	-0.2888832D-10
22 DICRI	-0.1217581D-10	-0.1207403D-10	-0.6265085D-12	0.2404912D-10

23	PGRPKM	0.8713230D+00	0.8640393D+00	0.4483408D-01	-0.1720998D+01
24	PDRQ	-0.7197339D+00	-0.7137174D+00	-0.3703403D-01	0.1421586D+01
25	ENTRNMDC	-0.2249109D-03	-0.2230308D-03	-0.1157283D-04	0.4442339D-03
26	PPAS	0.2579928D+00	0.2558362D+00	0.1327506D-01	-0.5095759D+00
27	SURPOL	-0.2800389D-02	-0.2776980D-02	-0.1440945D-03	0.5531205D-02
28	PERPA	0.1201510D-01	0.1191467D-01	0.6182392D-03	-0.2373170D-01
29	PRCHOM	-0.9428944D-01	-0.9350124D-01	-0.4851680D-02	0.1862363D+00
30	PRFEVM	-0.1232288D+01	-0.1221987D+01	-0.6340760D-01	0.2433961D+01
31	HEUHM	0.5641460D-03	0.5594301D-03	0.2902823D-04	-0.1114276D-02
32	PRMED	-0.1524038D-02	-0.1511298D-02	-0.7841965D-04	0.3010212D-02
33	PRALT	-0.2745055D-01	-0.2722109D-01	-0.1412473D-02	0.5421911D-01
34	PRMTRARI	0.7750884D+02	0.7686091D+02	0.3988231D+01	-0.1530920D+03
35	PRMMAGRI	0.2407929D+00	0.2387801D+00	0.1239004D-01	-0.4756035D+00
36	WD	-0.1254274D-03	-0.1243789D-03	-0.6453890D-05	0.2477387D-03
37	SAT	-0.2155557D-02	-0.2137538D-02	-0.1109146D-03	0.4257561D-02
38	SHD	-0.3490084D-03	-0.3460909D-03	-0.1795829D-04	0.6893458D-03
39	constant	0.2433597D+01	0.2413254D+01	0.1252212D+00	-0.4806732D+01

MRS between two moments (E(y), SIGMA(y), GAMMA(y))
at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.1927D+02	-0.5021D+00
SIGMA(y)	0.5189D-01	0.1000D+01	-0.2605D-01
GAMMA(y)	-0.1992D+01	-0.3839D+02	0.1000D+01

Elasticity of substitution between two moments
(E(y), SIGMA(y), GAMMA(y)) at the sample means

row / col	E(y)	SIGMA(y)	GAMMA(y)
E(y)	0.1000D+01	0.2662D+01	-0.1580D+01
SIGMA(y)	0.3756D+00	0.1000D+01	-0.5935D+00
GAMMA(y)	-0.6328D+00	-0.1685D+01	0.1000D+01

MRS of X(l) with respect to X(k) at the sample means

X(l)	X(k)	DISCEIN	LVCEI	P08PC	PTDEM	NCROUT04	GRPOL	STR813	STRP	STRCUQ	GRVOY
DISCEIN		0.1000D+01	-0.5672D-01	-0.6072D-01	-0.1476D+00	-0.2114D+00	-0.7840D-01	-0.1792D-02	0.3413D-01	0.5336D-02	0.3164D-02
LVCEI		-0.1763D+02	0.1000D+01	0.1071D+01	0.2603D+01	0.3728D+01	0.1382D+01	0.3159D-01	-0.6018D+00	-0.9408D-01	-0.5579D-01
P08PC		-0.1647D+02	0.9341D+00	0.1000D+01	0.2432D+01	0.3482D+01	0.1291D+01	0.2951D-01	-0.5622D+00	-0.8788D-01	-0.5212D-01
PTDEM		-0.6773D+01	0.3842D+00	0.4113D+00	0.1000D+01	0.1432D+01	0.5310D+00	0.1214D-01	-0.2312D+00	-0.3614D-01	-0.2143D-01
NCROUT04		-0.4730D+01	0.2683D+00	0.2872D+00	0.6983D+00	0.1000D+01	0.3708D+00	0.8474D-02	-0.1614D+00	-0.2524D-01	-0.1497D-01
GRPOL		-0.1276D+02	0.7235D+00	0.7745D+00	0.1883D+01	0.2697D+01	0.1000D+01	0.2285D-01	-0.4354D+00	-0.6807D-01	-0.4036D-01
STR813		-0.5581D+03	0.3166D+02	0.3389D+02	0.8241D+02	0.1180D+03	0.4376D+02	0.1000D+01	-0.1905D+02	-0.2978D+01	-0.1766D+01
STRP		0.2930D+02	-0.1662D+01	-0.1779D+01	-0.4325D+01	-0.6194D+01	-0.2297D+01	-0.5249D-01	0.1000D+01	0.1563D+00	0.9271D-01
STRCUQ		0.1874D+03	-0.1063D+02	-0.1138D+02	-0.2767D+02	-0.3962D+02	-0.1469D+02	-0.3358D+00	0.6397D+01	0.1000D+01	0.5930D+00
GRVOY		0.3160D+03	-0.1792D+02	-0.1919D+02	-0.4666D+02	-0.6681D+02	-0.2477D+02	-0.5662D+00	0.1079D+02	0.1686D+01	0.1000D+01
AUTPKRP		0.1668D+01	-0.9461D-01	-0.1013D+00	-0.2463D+00	-0.3527D+00	-0.1308D+00	-0.2989D-02	0.5694D-01	0.8901D-02	0.5278D-02
GRMUMH		0.2966D+03	-0.1682D+02	-0.1801D+02	-0.4379D+02	-0.6271D+02	-0.2325D+02	-0.5314D+00	0.1012D+02	0.1583D+01	0.9385D+00
TLK822		0.1347D+04	-0.7638D+02	-0.8176D+02	-0.1988D+03	-0.2847D+03	-0.1056D+03	-0.2413D+01	0.4596D+02	0.7185D+01	0.4261D+01
RFK822		0.9704D+04	-0.5504D+03	-0.5892D+03	-0.1433D+04	-0.2052D+04	-0.7608D+03	-0.1739D+02	0.3312D+03	0.5178D+02	0.3071D+02
SFK822		0.1060D+03	-0.6010D+01	-0.6434D+01	-0.1564D+02	-0.2240D+02	-0.8307D+01	-0.1898D+00	0.3617D+01	0.5654D+00	0.3353D+00
CSFMR822		0.2013D+04	-0.1142D+03	-0.1223D+03	-0.2973D+03	-0.4257D+03	-0.1578D+03	-0.3608D+01	0.6873D+02	0.1074D+02	0.6371D+01

LOIIND61	0.2277D+01	-0.1291D+00	-0.1382D+00	-0.3361D+00	-0.4814D+00	-0.1785D+00	-0.4079D-02	0.7771D-01	0.1215D-01	0.7204D-02	
LOIAS	0.2256D+01	-0.1279D+00	-0.1370D+00	-0.3331D+00	-0.4769D+00	-0.1768D+00	-0.4042D-02	0.7700D-01	0.1204D-01	0.7138D-02	
MOP62	-0.1469D+01	0.8333D-01	0.8920D-01	0.2169D+00	0.3106D+00	0.1152D+00	0.2632D-02	-0.5015D-01	-0.7839D-02	-0.4649D-02	
PRMVACR1	-0.7460D-03	0.4231D-04	0.4530D-04	0.1101D-03	0.1577D-03	0.5848D-04	0.1337D-05	-0.2546D-04	-0.3981D-05	-0.2361D-05	
KMPARR1	-0.1682D+10	0.9539D+08	0.1021D+09	0.2483D+09	0.3556D+09	0.1319D+09	0.3013D+07	-0.5741D+08	-0.8975D+07	-0.5322D+07	
DICR1	0.2020D+10	-0.1146D+09	-0.1227D+09	-0.2983D+09	-0.4271D+09	-0.1584D+09	-0.3620D+07	0.6896D+08	0.1078D+08	0.6393D+07	
PGRPKM	-0.2823D-01	0.1601D-02	0.1714D-02	0.4168D-02	0.5969D-02	0.2213D-02	0.5058D-04	-0.9637D-03	-0.1506D-03	-0.8934D-04	
PDRQ	0.3418D-01	-0.1939D-02	-0.2075D-02	-0.5046D-02	-0.7226D-02	-0.2679D-02	-0.6124D-04	0.1167D-02	0.1824D-03	0.1082D-03	
ENTRNMDC	0.1094D+03	-0.6203D+01	-0.6641D+01	-0.1615D+02	-0.2312D+02	-0.8574D+01	-0.1960D+00	0.3733D+01	0.5836D+00	0.3461D+00	
PPAS	-0.9535D-01	0.5408D-02	0.5789D-02	0.1408D-01	0.2016D-01	0.7475D-02	0.1708D-03	-0.3255D-02	-0.5088D-03	-0.3017D-03	
SURPOL	0.8784D+01	-0.4982D+00	-0.5334D+00	-0.1297D+01	-0.1857D+01	-0.6886D+00	-0.1574D-01	0.2998D+00	0.4687D-01	0.2780D-01	
PERPA	-0.2047D+01	0.1161D+00	0.1243D+00	0.3023D+00	0.4329D+00	0.1605D+00	0.3668D-02	-0.6988D-01	-0.1092D-01	-0.6479D-02	
PRCHOM	0.2609D+00	-0.1480D-01	-0.1584D-01	-0.3852D-01	-0.5516D-01	-0.2045D-01	-0.4674D-03	0.8905D-02	0.1392D-02	0.8256D-03	
PRFEVM	0.1996D-01	-0.1132D-02	-0.1212D-02	-0.2947D-02	-0.4220D-02	-0.1565D-02	-0.3577D-04	0.6814D-03	0.1065D-03	0.6317D-04	
HEUHM	-0.4360D+02	0.2473D+01	0.2648D+01	0.6438D+01	0.9219D+01	0.3418D+01	0.7812D-01	-0.1488D+01	-0.2327D+00	-0.1380D+00	
PRMED	0.1614D+02	-0.9155D+00	-0.9800D+00	-0.2383D+01	-0.3413D+01	-0.1265D+01	-0.2892D-01	0.5509D+00	0.8613D-01	0.5108D-01	
PRALT	0.8961D+00	-0.5083D-01	-0.5441D-01	-0.1323D+00	-0.1895D+00	-0.7025D-01	-0.1606D-02	0.3059D-01	0.4782D-02	0.2836D-02	
PRMTRAR1	-0.3174D-03	0.1800D-04	0.1927D-04	0.4686D-04	0.6710D-04	0.2488D-04	0.5686D-06	-0.1083D-04	-0.1694D-05	-0.1004D-05	
PRMMAGR1	-0.1022D+00	0.5794D-02	0.6203D-02	0.1508D-01	0.2160D-01	0.8009D-02	0.1830D-03	-0.3487D-02	-0.5451D-03	-0.3233D-03	
WD	0.1961D+03	-0.1112D+02	-0.1191D+02	-0.2896D+02	-0.4146D+02	-0.1538D+02	-0.3514D+00	0.6694D+01	0.1047D+01	0.6206D+00	
SAT	0.1141D+02	-0.6473D+00	-0.6929D+00	-0.1685D+01	-0.2413D+01	-0.8946D+00	-0.2045D-01	0.3895D+00	0.6089D-01	0.3611D-01	
SHD	0.7048D+02	-0.3998D+01	-0.4280D+01	-0.1041D+02	-0.1490D+02	-0.5526D+01	-0.1263D+00	0.2406D+01	0.3761D+00	0.2230D+00	
constant	-0.1011D-01	0.5733D-03	0.6138D-03	0.1492D-02	0.2137D-02	0.7924D-03	0.1811D-04	-0.3450D-03	-0.5394D-04	-0.3199D-04	
=====											
X(1)	X(k)	AUTPKRP	GRMUMH	TLK822	RFK822	SFK822	CSFMR822	LOIIND61	LOIAS	MOP62	PRMVACR1
=====											
DISCEIN	0.5995D+00	0.3372D-02	0.7426D-03	0.1030D-03	0.9438D-02	0.4966D-03	0.4392D+00	0.4433D+00	-0.6807D+00	-0.1341D+04	
LVCEI	-0.1057D+02	-0.5945D-01	-0.1309D-01	-0.1817D-02	-0.1664D+00	-0.8756D-02	-0.7744D+01	-0.7816D+01	0.1200D+02	0.2363D+05	
P08PC	-0.9873D+01	-0.5553D-01	-0.1223D-01	-0.1697D-02	-0.1554D+00	-0.8179D-02	-0.7234D+01	-0.7301D+01	0.1121D+02	0.2208D+05	
PTDEM	-0.4060D+01	-0.2284D-01	-0.5030D-02	-0.6980D-03	-0.6392D-01	-0.3364D-02	-0.2975D+01	-0.3002D+01	0.4610D+01	0.9079D+04	
NCROUT04	-0.2836D+01	-0.1595D-01	-0.3513D-02	-0.4874D-03	-0.4464D-01	-0.2349D-02	-0.2077D+01	-0.2097D+01	0.3219D+01	0.6340D+04	
GRPOL	-0.7647D+01	-0.4301D-01	-0.9473D-02	-0.1314D-02	-0.1204D+00	-0.6335D-02	-0.5603D+01	-0.5655D+01	0.8683D+01	0.1710D+05	
STR813	-0.3346D+03	-0.1882D+01	-0.4145D+00	-0.5752D-01	-0.5268D+01	-0.2772D+00	-0.2451D+03	-0.2474D+03	0.3799D+03	0.7482D+06	
STRP	0.1756D+02	0.9878D-01	0.2176D-01	0.3019D-02	0.2765D+00	0.1455D-01	0.1287D+02	0.1299D+02	-0.1994D+02	-0.3927D+05	
STRCUQ	0.1123D+03	0.6319D+00	0.1392D+00	0.1931D-01	0.1769D+01	0.9307D-01	0.8231D+02	0.8308D+02	-0.1276D+03	-0.2512D+06	
GRVOY	0.1894D+03	0.1066D+01	0.2347D+00	0.3257D-01	0.2982D+01	0.1569D+00	0.1388D+03	0.1401D+03	-0.2151D+03	-0.4236D+06	
AUTPKRP	0.1000D+01	0.5624D-02	0.1239D-02	0.1719D-03	0.1574D-01	0.8284D-03	0.7327D+00	0.7395D+00	-0.1135D+01	-0.2236D+04	
GRMUMH	0.1778D+03	0.1000D+01	0.2203D+00	0.3056D-01	0.2799D+01	0.1473D+00	0.1303D+03	0.1315D+03	-0.2019D+03	-0.3976D+06	
TLK822	0.8073D+03	0.4540D+01	0.1000D+01	0.1388D+00	0.1271D+02	0.6688D+00	0.5914D+03	0.5969D+03	-0.9166D+03	-0.1805D+07	
RFK822	0.5818D+04	0.3272D+02	0.7207D+01	0.1000D+01	0.9158D+02	0.4820D+01	0.4262D+04	0.4302D+04	-0.6605D+04	-0.1301D+08	
SFK822	0.6352D+02	0.3573D+00	0.7869D-01	0.1092D-01	0.1000D+01	0.5262D-01	0.4654D+02	0.4697D+02	-0.7212D+02	-0.1420D+06	
CSFMR822	0.1207D+04	0.6789D+01	0.1495D+01	0.2075D+00	0.1900D+02	0.1000D+01	0.8844D+03	0.8926D+03	-0.1371D+04	-0.2699D+07	
LOIIND61	0.1365D+01	0.7677D-02	0.1691D-02	0.2346D-03	0.2149D-01	0.1131D-02	0.1000D+01	0.1009D+01	-0.1550D+01	-0.3052D+04	
LOIAS	0.1352D+01	0.7606D-02	0.1675D-02	0.2325D-03	0.2129D-01	0.1120D-02	0.9908D+00	0.1000D+01	-0.1535D+01	-0.3024D+04	
MOP62	-0.8807D+00	-0.4953D-02	-0.1091D-02	-0.1514D-03	-0.1387D-01	-0.7296D-03	-0.6453D+00	-0.6513D+00	0.1000D+01	0.1969D+04	
PRMVACR1	-0.4472D-03	-0.2515D-05	-0.5540D-06	-0.7687D-07	-0.7040D-05	-0.3705D-06	-0.3277D-03	-0.3307D-03	0.5078D-03	0.1000D+01	
KMPARR1	-0.1008D+10	-0.5671D+07	-0.1249D+07	-0.1733D+06	-0.1587D+08	-0.8353D+06	-0.7387D+09	-0.7456D+09	0.1145D+10	0.2255D+13	
DICR1	0.1211D+10	0.6812D+07	0.1500D+07	0.2082D+06	0.1907D+08	0.1003D+07	0.8874D+09	0.8956D+09	-0.1375D+10	-0.2708D+13	
PGRPKM	-0.1692D-01	-0.9519D-04	-0.2097D-04	-0.2909D-05	-0.2664D-03	-0.1402D-04	-0.1240D-01	-0.1252D-01	0.1922D-01	0.3784D+02	
PDRQ	0.2049D-01	0.1152D-03	0.2538D-04	0.3522D-05	0.3226D-03	0.1697D-04	0.1501D-01	0.1515D-01	-0.2326D-01	-0.4582D+02	
ENTRNMDC	0.6557D+02	0.3688D+00	0.8122D-01	0.1127D-01	0.1032D+01	0.5432D-01	0.4804D+02	0.4848D+02	-0.7445D+02	-0.1466D+06	

PPAS	-0.5716D-01	-0.3215D-03	-0.7081D-04	-0.9825D-05	-0.8999D-03	-0.4735D-04	-0.4188D-01	-0.4227D-01	0.6490D-01	0.1278D+03	
SURPOL	0.5266D+01	0.2962D-01	0.6523D-02	0.9052D-03	0.8290D-01	0.4363D-02	0.3858D+01	0.3894D+01	-0.5979D+01	-0.1178D+05	
PERPA	-0.1227D+01	-0.6903D-02	-0.1520D-02	-0.2110D-03	-0.1932D-01	-0.1017D-02	-0.8992D+00	-0.9076D+00	0.1394D+01	0.2744D+04	
PRCHOM	0.1564D+00	0.8796D-03	0.1937D-03	0.2688D-04	0.2462D-02	0.1296D-03	0.1146D+00	0.1157D+00	-0.1776D+00	-0.3497D+03	
PRFEVM	0.1197D-01	0.6731D-04	0.1482D-04	0.2057D-05	0.1884D-03	0.9914D-05	0.8768D-02	0.8849D-02	-0.1359D-01	-0.2676D+02	
HEUHM	-0.2614D+02	-0.1470D+00	-0.3238D-01	-0.4493D-02	-0.4115D+00	-0.2166D-01	-0.1915D+02	-0.1933D+02	0.2968D+02	0.5845D+05	
PRMED	0.9676D+01	0.5442D-01	0.1199D-01	0.1663D-02	0.1523D+00	0.8016D-02	0.7089D+01	0.7155D+01	-0.1099D+02	-0.2164D+05	
PRALT	0.5372D+00	0.3021D-02	0.6655D-03	0.9234D-04	0.8457D-02	0.4451D-03	0.3936D+00	0.3972D+00	-0.6100D+00	-0.1201D+04	
PRMTRAR1	-0.1903D-03	-0.1070D-05	-0.2357D-06	-0.3270D-07	-0.2995D-05	-0.1576D-06	-0.1394D-03	-0.1407D-03	0.2160D-03	0.4254D+00	
PRMMAGR1	-0.6124D-01	-0.3444D-03	-0.7587D-04	-0.1053D-04	-0.9641D-03	-0.5074D-04	-0.4487D-01	-0.4529D-01	0.6954D-01	0.1369D+03	
WD	0.1176D+03	0.6613D+00	0.1456D+00	0.2021D-01	0.1851D+01	0.9740D-01	0.8614D+02	0.8694D+02	-0.1335D+03	-0.2629D+06	
SAT	0.6841D+01	0.3848D-01	0.8475D-02	0.1176D-02	0.1077D+00	0.5668D-02	0.5012D+01	0.5059D+01	-0.7768D+01	-0.1530D+05	
SHD	0.4225D+02	0.2376D+00	0.5234D-01	0.7263D-02	0.6652D+00	0.3501D-01	0.3096D+02	0.3124D+02	-0.4798D+02	-0.9448D+05	
constant	-0.6060D-02	-0.3408D-04	-0.7507D-05	-0.1042D-05	-0.9540D-04	-0.5020D-05	-0.4440D-02	-0.4481D-02	0.6880D-02	0.1355D+02	
=====											
X (l)	X (k)	KMPARR1	DICR1	PGRPKM	PDRQ	ENTRNMDC	PPAS	SURPOL	PERPA	PRCHOM	PRFEVM
=====											
DISCEIN	-0.5946D-09	0.4950D-09	-0.3542D+02	0.2926D+02	0.9143D-02	-0.1049D+02	0.1138D+00	-0.4884D+00	0.3833D+01	0.5010D+02	
LVCEI	0.1048D-07	-0.8727D-08	0.6245D+03	-0.5159D+03	-0.1612D+00	0.1849D+03	-0.2007D+01	0.8612D+01	-0.6758D+02	-0.8832D+03	
P08PC	0.9792D-08	-0.8152D-08	0.5834D+03	-0.4819D+03	-0.1506D+00	0.1727D+03	-0.1875D+01	0.8044D+01	-0.6313D+02	-0.8250D+03	
PTDEM	0.4027D-08	-0.3352D-08	0.2399D+03	-0.1982D+03	-0.6193D-01	0.7104D+02	-0.7711D+00	0.3308D+01	-0.2596D+02	-0.3393D+03	
NCROUT04	0.2812D-08	-0.2341D-08	0.1675D+03	-0.1384D+03	-0.4325D-01	0.4961D+02	-0.5385D+00	0.2310D+01	-0.1813D+02	-0.2369D+03	
GRPOL	0.7584D-08	-0.6314D-08	0.4518D+03	-0.3732D+03	-0.1166D+00	0.1338D+03	-0.1452D+01	0.6230D+01	-0.4889D+02	-0.6390D+03	
STR813	0.3319D-06	-0.2763D-06	0.1977D+05	-0.1633D+05	-0.5103D+01	0.5854D+04	-0.6354D+02	0.2726D+03	-0.2139D+04	-0.2796D+05	
STRP	-0.1742D-07	0.1450D-07	-0.1038D+04	0.8572D+03	0.2679D+00	-0.3073D+03	0.3335D+01	-0.1431D+02	0.1123D+03	0.1468D+04	
STRCUQ	-0.1114D-06	0.9276D-07	-0.6638D+04	0.5483D+04	0.1713D+01	-0.1965D+04	0.2133D+02	-0.9154D+02	0.7183D+03	0.9388D+04	
GRVOY	-0.1879D-06	0.1564D-06	-0.1119D+05	0.9246D+04	0.2889D+01	-0.3314D+04	0.3598D+02	-0.1544D+03	0.1211D+04	0.1583D+05	
AUTPKRP	-0.9918D-09	0.8257D-09	-0.5909D+02	0.4881D+02	0.1525D-01	-0.1749D+02	0.1899D+00	-0.8148D+00	0.6394D+01	0.8356D+02	
GRMUMH	-0.1763D-06	0.1468D-06	-0.1051D+05	0.8678D+04	0.2712D+01	-0.3111D+04	0.3376D+02	-0.1449D+03	0.1137D+04	0.1486D+05	
TLK822	-0.8006D-06	0.6665D-06	-0.4770D+05	0.3940D+05	0.1231D+02	-0.1412D+05	0.1533D+03	-0.6577D+03	0.5161D+04	0.6746D+05	
RFK822	-0.5770D-05	0.4803D-05	-0.3437D+06	0.2839D+06	0.8873D+02	-0.1018D+06	0.1105D+04	-0.4740D+04	0.3720D+05	0.4861D+06	
SFK822	-0.6300D-07	0.5245D-07	-0.3753D+04	0.3100D+04	0.9688D+00	-0.1111D+04	0.1206D+02	-0.5175D+02	0.4061D+03	0.5308D+04	
CSFMR822	-0.1197D-05	0.9966D-06	-0.7132D+05	0.5891D+05	0.1841D+02	-0.2112D+05	0.2292D+03	-0.9835D+03	0.7718D+04	0.1009D+06	
LOIIND61	-0.1354D-08	0.1127D-08	-0.8064D+02	0.6661D+02	0.2082D-01	-0.2388D+02	0.2592D+00	-0.1112D+01	0.8727D+01	0.1141D+03	
LOIAS	-0.1341D-08	0.1117D-08	-0.7990D+02	0.6600D+02	0.2063D-01	-0.2366D+02	0.2568D+00	-0.1102D+01	0.8647D+01	0.1130D+03	
MOP62	0.8735D-09	-0.7272D-09	0.5204D+02	-0.4298D+02	-0.1343D-01	0.1541D+02	-0.1672D+00	0.7176D+00	-0.5631D+01	-0.7360D+02	
PRMVACR1	0.4435D-12	-0.3692D-12	0.2642D-01	-0.2183D-01	-0.6821D-05	0.7824D-02	-0.8492D-04	0.3644D-03	-0.2859D-02	-0.3737D-01	
KMPARR1	0.1000D+01	-0.8325D+00	0.5957D+11	-0.4921D+11	-0.1538D+08	0.1764D+11	-0.1915D+09	0.8215D+09	-0.6447D+10	-0.8425D+11	
DICR1	-0.1201D+01	0.1000D+01	-0.7156D+11	0.5911D+11	0.1847D+08	-0.2119D+11	0.2300D+09	-0.9868D+09	0.7744D+10	0.1012D+12	
PGRPKM	0.1679D-10	-0.1397D-10	0.1000D+01	-0.8260D+00	-0.2581D-03	0.2961D+00	-0.3214D-02	0.1379D-01	-0.1082D+00	-0.1414D+01	
PDRQ	-0.2032D-10	0.1692D-10	-0.1211D+01	0.1000D+01	0.3125D-03	-0.3585D+00	0.3891D-02	-0.1669D-01	0.1310D+00	0.1712D+01	
ENTRNMDC	-0.6503D-07	0.5414D-07	-0.3874D+04	0.3200D+04	0.1000D+01	-0.1147D+04	0.1245D+02	-0.5342D+02	0.4192D+03	0.5479D+04	
PPAS	0.5669D-10	-0.4719D-10	0.3377D+01	-0.2790D+01	-0.8718D-03	0.1000D+01	-0.1085D-01	0.4657D-01	-0.3655D+00	-0.4776D+01	
SURPOL	-0.5223D-08	0.4348D-08	-0.3111D+03	0.2570D+03	0.8031D-01	-0.9213D+02	0.1000D+01	-0.4291D+01	0.3367D+02	0.4400D+03	
PERPA	0.1217D-08	-0.1013D-08	0.7252D+02	-0.5990D+02	-0.1872D-01	0.2147D+02	-0.2331D+00	0.1000D+01	-0.7848D+01	-0.1026D+03	
PRCHOM	-0.1551D-09	0.1291D-09	-0.9241D+01	0.7633D+01	0.2385D-02	-0.2736D+01	0.2970D-01	-0.1274D+00	0.1000D+01	0.1307D+02	
PRFEVM	-0.1187D-10	0.9881D-11	-0.7071D+00	0.5841D+00	0.1825D-03	-0.2094D+00	0.2273D-02	-0.9750D-02	0.7652D-01	0.1000D+01	
HEUHM	0.2593D-07	-0.2158D-07	0.1544D+04	-0.1276D+04	-0.3987D+00	0.4573D+03	-0.4964D+01	0.2130D+02	-0.1671D+03	-0.2184D+04	
PRMED	-0.9597D-08	0.7989D-08	-0.5717D+03	0.4723D+03	0.1476D+00	-0.1693D+03	0.1837D+01	-0.7884D+01	0.6187D+02	0.8086D+03	
PRALT	-0.5328D-09	0.4436D-09	-0.3174D+02	0.2622D+02	0.8193D-02	-0.9398D+01	0.1020D+00	-0.4377D+00	0.3435D+01	0.4489D+02	
PRMTRAR1	0.1887D-12	-0.1571D-12	0.1124D-01	-0.9286D-02	-0.2902D-05	0.3329D-02	-0.3613D-04	0.1550D-03	-0.1216D-02	-0.1590D-01	

PRMMAGR1	0.6074D-10	-0.5057D-10	0.3619D+01	-0.2989D+01	-0.9340D-03	0.1071D+01	-0.1163D-01	0.4990D-01	-0.3916D+00	-0.5118D+01
WD	-0.1166D-06	0.9707D-07	-0.6947D+04	0.5738D+04	0.1793D+01	-0.2057D+04	0.2233D+02	-0.9579D+02	0.7517D+03	0.9825D+04
SAT	-0.6785D-08	0.5649D-08	-0.4042D+03	0.3339D+03	0.1043D+00	-0.1197D+03	0.1299D+01	-0.5574D+01	0.4374D+02	0.5717D+03
SHD	-0.4191D-07	0.3489D-07	-0.2497D+04	0.2062D+04	0.6444D+00	-0.7392D+03	0.8024D+01	-0.3443D+02	0.2702D+03	0.3531D+04
constant	0.6010D-11	-0.5003D-11	0.3580D+00	-0.2957D+00	-0.9242D-04	0.1060D+00	-0.1151D-02	0.4937D-02	-0.3874D-01	-0.5064D+00

X(k)	HEUHM	PRMED	PRLT	PRMTRAR1	PRMMAGR1	WD	SAT	SHD	constant
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X(1)	DISCEIN	-0.2293D-01	0.6196D-01	0.1116D+01	-0.3151D+04	-0.9789D+01	0.5099D-02	0.8763D-01	0.1419D-01	-0.9893D+02
	LVCEI	0.4043D+00	-0.1092D+01	-0.1967D+02	0.5555D+05	0.1726D+03	-0.8990D-01	-0.1545D+01	-0.2501D+00	0.1744D+04
	P08PC	0.3777D+00	-0.1020D+01	-0.1838D+02	0.5189D+05	0.1612D+03	-0.8398D-01	-0.1443D+01	-0.2337D+00	0.1629D+04
	PTDEM	0.1553D+00	-0.4196D+00	-0.7558D+01	0.2134D+05	0.6630D+02	-0.3454D-01	-0.5935D+00	-0.9610D-01	0.6701D+03
	NCROUT04	0.1085D+00	-0.2930D+00	-0.5278D+01	0.1490D+05	0.4630D+02	-0.2412D-01	-0.4145D+00	-0.6711D-01	0.4679D+03
	GRPOL	0.2925D+00	-0.7903D+00	-0.1423D+02	0.4019D+05	0.1249D+03	-0.6504D-01	-0.1118D+01	-0.1810D+00	0.1262D+04
	STR813	0.1280D+02	-0.3458D+02	-0.6228D+03	0.1759D+07	0.5463D+04	-0.2846D+01	-0.4891D+02	-0.7919D+01	0.5522D+05
	STRP	-0.6719D+00	0.1815D+01	0.3269D+02	-0.9231D+05	-0.2868D+03	0.1494D+00	0.2567D+01	0.4157D+00	-0.2898D+04
	STRCUQ	-0.4298D+01	0.1161D+02	0.2091D+03	-0.5905D+06	-0.1834D+04	0.9555D+00	0.1642D+02	0.2659D+01	-0.1854D+05
	GRVOY	-0.7247D+01	0.1958D+02	0.3527D+03	-0.9957D+06	-0.3093D+04	0.1611D+01	0.2769D+02	0.4484D+01	-0.3126D+05
	AUTPKRP	-0.3826D-01	0.1033D+00	0.1861D+01	-0.5256D+04	-0.1633D+02	0.8505D-02	0.1462D+00	0.2367D-01	-0.1650D+03
	GRMUMH	-0.6802D+01	0.1838D+02	0.3310D+03	-0.9345D+06	-0.2903D+04	0.1512D+01	0.2599D+02	0.4208D+01	-0.2934D+05
	TLK822	-0.3088D+02	0.8343D+02	0.1503D+04	-0.4243D+07	-0.1318D+05	0.6866D+01	0.1180D+03	0.1911D+02	-0.1332D+06
	RFK822	-0.2226D+03	0.6012D+03	0.1083D+05	-0.3058D+08	-0.9499D+05	0.4948D+02	0.8503D+03	0.1377D+03	-0.9600D+06
	SFK822	-0.2430D+01	0.6565D+01	0.1182D+03	-0.3339D+06	-0.1037D+04	0.5403D+00	0.9285D+01	0.1503D+01	-0.1048D+05
	CSFMR822	-0.4618D+02	0.1247D+03	0.2247D+04	-0.6344D+07	-0.1971D+05	0.1027D+02	0.1764D+03	0.2857D+02	-0.1992D+06
	LOIIND61	-0.5221D-01	0.1411D+00	0.2541D+01	-0.7174D+04	-0.2229D+02	0.1161D-01	0.1995D+00	0.3230D-01	-0.2252D+03
	LOIAS	-0.5173D-01	0.1398D+00	0.2517D+01	-0.7108D+04	-0.2208D+02	0.1150D-01	0.1977D+00	0.3201D-01	-0.2232D+03
	MOP62	0.3369D-01	-0.9102D-01	-0.1639D+01	0.4629D+04	0.1438D+02	-0.7491D-02	-0.1287D+00	-0.2084D-01	0.1453D+03
	PRMVACR1	0.1711D-04	-0.4622D-04	-0.8325D-03	0.2351D+01	0.7302D-02	-0.3804D-05	-0.6537D-04	-0.1058D-04	0.7380D-01
	KMPARR1	0.3857D+08	-0.1042D+09	-0.1877D+10	0.5299D+13	0.1646D+11	-0.8576D+07	-0.1474D+09	-0.2386D+08	0.1664D+12
	DICR1	-0.4633D+08	0.1252D+09	0.2255D+10	-0.6366D+13	-0.1978D+11	0.1030D+08	0.1770D+09	0.2866D+08	-0.1999D+12
	PGRPKM	0.6475D-03	-0.1749D-02	-0.3150D-01	0.8896D+02	0.2764D+00	-0.1440D-03	-0.2474D-02	-0.4005D-03	0.2793D+01
	PDRQ	-0.7838D-03	0.2118D-02	0.3814D-01	-0.1077D+03	-0.3346D+00	0.1743D-03	0.2995D-02	0.4849D-03	-0.3381D+01
	ENTRNMDC	-0.2508D+01	0.6776D+01	0.1221D+03	-0.3446D+06	-0.1071D+04	0.5577D+00	0.9584D+01	0.1552D+01	-0.1082D+05
	PPAS	0.2187D-02	-0.5907D-02	-0.1064D+00	0.3004D+03	0.9333D+00	-0.4862D-03	-0.8355D-02	-0.1353D-02	0.9433D+01
	SURPOL	-0.2015D+00	0.5442D+00	0.9802D+01	-0.2768D+05	-0.8599D+02	0.4479D-01	0.7697D+00	0.1246D+00	-0.8690D+03
	PERPA	0.4695D-01	-0.1268D+00	-0.2285D+01	0.6451D+04	0.2004D+02	-0.1044D-01	-0.1794D+00	-0.2905D-01	0.2025D+03
	PRCHOM	-0.5983D-02	0.1616D-01	0.2911D+00	-0.8220D+03	-0.2554D+01	0.1330D-02	0.2286D-01	0.3701D-02	-0.2581D+02
	PRFEVM	-0.4578D-03	0.1237D-02	0.2228D-01	-0.6290D+02	-0.1954D+00	0.1018D-03	0.1749D-02	0.2832D-03	-0.1975D+01
	HEUHM	0.1000D+01	-0.2701D+01	-0.4866D+02	0.1374D+06	0.4268D+03	-0.2223D+00	-0.3821D+01	-0.6186D+00	0.4314D+04
	PRMED	-0.3702D+00	0.1000D+01	0.1801D+02	-0.5086D+05	-0.1580D+03	0.8230D-01	0.1414D+01	0.2290D+00	-0.1597D+04
	PRLT	-0.2055D-01	0.5552D-01	0.1000D+01	-0.2824D+04	-0.8772D+01	0.4569D-02	0.7853D-01	0.1271D-01	-0.8865D+02
	PRMTRAR1	0.7278D-05	-0.1966D-04	-0.3542D-03	0.1000D+01	0.3107D-02	-0.1618D-05	-0.2781D-04	-0.4503D-05	0.3140D-01
	PRMMAGR1	0.2343D-02	-0.6329D-02	-0.1140D+00	0.3219D+03	0.1000D+01	-0.5209D-03	-0.8952D-02	-0.1449D-02	0.1011D+02
	WD	-0.4498D+01	0.1215D+02	0.2189D+03	-0.6180D+06	-0.1920D+04	0.1000D+01	0.1719D+02	0.2783D+01	-0.1940D+05
	SAT	-0.2617D+00	0.7070D+00	0.1273D+02	-0.3596D+05	-0.1117D+03	0.5819D-01	0.1000D+01	0.1619D+00	-0.1129D+04
	SHD	-0.1616D+01	0.4367D+01	0.7865D+02	-0.2221D+06	-0.6899D+03	0.3594D+00	0.6176D+01	0.1000D+01	-0.6973D+04
	constant	0.2318D-03	-0.6262D-03	-0.1128D-01	0.3185D+02	0.9895D-01	-0.5154D-04	-0.8857D-03	-0.1434D-03	0.1000D+01

Log-likelihood

- initial value : 1053.4274
- final value : 1072.4555

```

- ratio test      :      38.0562

Pearson-r2        :      0.6929
Pearson-r2 bar    :      0.6357
Pseudo-(1)-r2     :      0.8259
Pseudo-(1)-r2 bar :      0.7934
Std-error of (w)   :      0.0210


Number of observations first-last obs.no.

- sample      :    313          1 -    313
- estimation   :    300          14 -    313


CPU TIME:      1.30 sec

```

2. LEVEL L-1.6 TABLEX

- L-1.6 tablex is a program which generates a report of a set of selected variants estimated by the L-1.6 program in tabular form that can be imported into a Word document. Thirteen statistics such as the regression coefficients, their conditional t-statistics and the derivatives and elasticities of the three moments (expected value, standard error and skewness), among others, are available.

2.1 Input File

The input file for L-1.6 TABLEX contains four sections:

SECTION I : Tablex options	
First Card (List Options) <code>_Scard_vname=...,nbloc=...,neq=...,nestim=...,ndt=...,nvs=...,nlist=...,nstat=...\$</code> (Symbol _ indicates a blank. A value should be specified for each parameter after the equality sign)	
vname	Variant name, common to the NEQ equations (or variants).
nbloc	Number of blocks of independent variables X in the list of names and definitions of the blocks and the variables given in the file FNAME declared in Section II. The number of blocks is unlimited with a total of 350 independent variables.
neq	Number of equations (or variants) estimated by LEVEL 1.6, to be reported in Tablex (max. 10).
nestim	= 1, all the derivatives and elasticities computed at the sample means, based on the whole estimation period, are reported in Tablex. = 2, all the derivatives and elasticities computed at the sample means, based on the last portion of the estimation period, are reported in Tablex.
ndt	Number of variables Z (or Delta coefficients) used for heteroskedasticity in the NEQ equations (max. 5).
nvs	= 0, French Tablex. = 1, English Tablex.
nlist	= 0, normal run where only the tablex is produced. = 1, no tablex is produced, only the list of blocks with the definitions of the independent variables X is produced.
nstat	Vector of print options for the thirteen statistics associated with each Beta or Delta coefficient. nstat(i) = 0 : no print for the ith statistic (i=1,13). i : print the ith statistic. The thirteen statistics are: i = 1 : BETA or DELTA coefficient i = 2 : Derivative of Y (sample value) i = 3 : Derivative of E(Y)

	i = 4 : Derivative of SIGMA(Y) i = 5 : Derivative of GAMMA(Y) i = 6 : Elasticity of Y (sample value) i = 7 : Elasticity of E(Y) i = 8 : Elasticity of SIGMA(Y) i = 9 : Elasticity of GAMMA(Y) i = 10 : Correlation (Y,X_k or Z_m) original units i = 11 : Correlation (Y,X_k or Z_m) Box-Cox transformed i = 12 : Marginal Rate of Substitution ($d X_{ref} / d X_k$ or Z_m) i = 13 : Conditional t-statistic for BETA or DELTA.
Second Card Type (Variables of Reference for MRS between two X's)	
xrefname	Vector of names of the reference variables X_{ref} for the Marginal Rate of Substitution (MRS) between the reference variable X_{ref} and each independent variable X_k (or heteroskedasticity variable Z_m), for the NEQ equations (in format A8 and one name per card).
Third Card Type (Variables for Heteroskedasticity, necessary only if NDT>0)	
namd	Vector of NDT names of the variables Z used for heteroskedasticity in the NEQ equations (in format A8 and one name per card).

SECTION II: List of Names and Definitions of the Blocks and the Variables	
fname	Name of the file containing the list of all the names and definitions of the blocks and the independent variables within each block. A blank card is needed after each block. The file can be in the current directory where TABLEX is run or in another directory in which case the full pathname of the directory should be specified (80 columns).
SECTION III : Estimation Results	
fname	Names of the files containing the estimation results of the NEQ equations which were stored by program LEVEL L-1.6. Enter one file name per card. If the files are not in the current directory, the full pathname for each directory different from the current one should be specified (80 columns). The display order of the equations (or variants) in the columns of L-1.6 TABLEX follows the entry order of the file names specified in this section.
SECTION IV : Data file	
fname	Name of the data file containing the observations of all the variables. If the file is not in the current directory where TABLEX is run, the full pathname for another directory should be specified (80 columns).
ffmt	FORTRAN input format card for the data file, within parentheses (80 columns).

2.2 Running L-1.6 Tablex

Since L-1.6 Tablex is a DOS-program, it can only be run in a DOS dialog box:

1. Select START/RUN menu and type the command **cmd** to open the DOS dialog box.
2. At the DOS prompt, change to the directory where the Tablex input file is located.
3. To run the program, type the command:

d:\level1new\L1Tablex\release\L1Tablex.exe < input file name > output file name.

An easier way to run the program without the DOS dialog box is to store the command in a batch file (extension .bat) and double-click on this file to execute the command. We will use this method to produce a tablex for the three examples below. A batch file named *RunTablex.bat* is available for each example in the corresponding directory.

The output file containing the results of a chosen set of estimated variants displayed by column is stored in the same directory as the input file.

2.3 First Example of Input File

The first example of a Tablex input file, *Tablex.in*, is stored in *d:\Level1new\L1Tablex\Tablex Tests\First Example* where *d:* is the drive where the program Level 1.6 is installed.

Three files are used in *Tablex.in* :

1. *L1listdef.txt* which contains the names and the definitions of the blocks and of the variables in each block. This file is as follows:

1P	=	PRIX	PRICES
0fscd		TARIF DE TRANSIT ECOLIERS CTCUM	REAL MUCTC STUDENT TRANSIT FARE
0fad		TARIF REEL ADULTES CTCUM	REAL MUCTC ADULT TRANSIT FARE
0p		INDICE PRIX CONSOMMATION, MONTREAL	CONSUMER PRICE INDEX, MONTREAL
2M	=	MOTORISATION	MOTOR VEHICLES
0nc		VOITURES DANS TERRITOIRE CTCUM	CARS IN MUCTC AREA
3NT	=	RESEAU - NIVEAUX DE SERVICE TEMPS	NETWORK - TIME SERVICE LEVELS
0tw		TEMPS ATTENTE DES VEHICULES CTCUM	WAIT TIME FOR MUCTC VEHICLES
0tt		TEMPS TRAJET REPRESENTATIF CTCUM	MUCTC IN-VEHICLE TRAVEL TIME
0t2t		TEMPS DEPLAC.REPRES.HORS-PTE MTL	OFF-PEAK TRAVEL TIME BY CAR, MTL
2str		GREVES COMPLETES CTCUM	COMPLETE STRIKES BY MUCTC
2struct1		RESTRUCTURATION DES LIGNES DU METRO	RESTRUCTURATION OF LINES FOR METRO
2fir		IMPACT RESIDUEL FEU DANS LE METRO	RESIDUAL SUBWAY FIRE IMPACT
4NIW	=	RESEAU - INFRASTRUCTURE, CLIMAT	NETWORK - INFRASTRUCTURE, WEATHER
1tlk		TROP CHAUD OU FROID PAR RAP.A 56 F.	TOO HOT OR COLD RELATIVE TO 56 F.
2rfk		PLUIE PAR JOUR A DORVAL	RAINFALL PER DAY, DORVAL AIRPORT
3dumrfk		DUMMY POUR RFK	DUMMY FOR RFK
1sfk		NEIGE PAR JOUR A DORVAL	SNOWFALL PER DAY, DORVAL AIRPORT
1csfmr		ACCUMULATION DE NEIGE A DORVAL	ACCUMULATED SNOWFALL, DORVAL AIRPORT
5CG	=	CONSUMMATEURS - CARACTER. GENERALES	CONSUMERS - GENERAL CHARACTERISTICS
0rawem		REVENU HEBDO.MOYEN REEL A MONTREAL	REAL AVERAGE WEEKLY EARNINGS, MTL
6CA	=	CONSUMMATEURS - AGE	CONSUMERS - AGE
3cheat2		CARTES A TARIF REDUIT CONTROL.ORDI.	COMPUTER CONTROL.REDUCED FARE CARDS
3cardex		EXPIR.D'ETE DES CARTES A TARIF RED.	SUMMER EXPIR.REDUCED FARE CARDS
7AFI	=	ACTIVITE - FINALE ET INTERMEDIAIRE	ACTIVITY - FINAL AND INTERMEDIATE
0rscmp		INSCRIPTIONS DANS LES ECOLES, MTL	SCHOOL AND JR.COLLEGE REGIST., MTL
0tend		INSCRIPTIONS A L'ECOLE SECONDAIRE	SECONDARY SCHOOL REGISTRATION
0shonf		INDICE VENTES AU DETAIL REELLES	REAL RETAIL SALES INDEX
0eanfp		INDICE ACTIVITE EMPLOI,MTL	EMPLOYMENT ACTIVITY INDEX,MTL
1rcutp		INDICE ACTIVITE COLL.,UNIV.,MTL	INDEX COLL.,UNIV.ACTIVITY,MTL
2ex7		EXPO 67	EXPO 67
2ex8		TERRE DES HOMMES 1968	MAN AND HIS WORLD 1968
2ex9		TERRE DES HOMMES 1969	MAN AND HIS WORLD 1969

2ex0	TERRE DES HOMMES 1970	MAN AND HIS WORLD 1970
2ex1	TERRE DES HOMMES 1971	MAN AND HIS WORLD 1971
3dumex7	DUMMY POUR EX7	DUMMY FOR EX7
8ADM	= ET CETERA - ADMINISTRATIF	ET CETERA - ADMINISTRATIVE
2zsc	DOUB.COMPT.ECOL.ZONES TARIF.MULT.	MULT.FARE ZONES SCH.C.DBL.COUNTING
2za	DOUB.COMPT.ADUL.ZONES TARIF.MULT.	MULT.FARE ZONES ADULT DBL.COUNTING
3ant	ACHAT SPECULATIF DE BILLETS	SPECULATIVE TICKET PURCHASE
3ant11	ACHAT SPECUL. DE BILLETS RET.1M.	SPECULATIVE TICKET PURCHASE LAG 1M.
9AGG	= ET CETERA - AGREGATION	ET CETERA - AGGREGATION
0wd	NOMBRE DE JOURS DE TRAV.PAR MOIS	WORKDAYS PER MONTH
0sat	NOMBRE DE SAMEDIS PAR MOIS	SATURDAYS PER MONTH
0shd	NOMBRE DE DIMANCHES, FETES PAR MOIS	SUNDAYS AND HOLIDAYS PER MONTH
0constant	CONSTANTE DE LA REGRESSION	REGRESSION CONSTANT

The Fortran input format for this file is (i2,a8,2a35):

1. The first field length is 2 characters. It is reserved for the number of a block or the category of each independent variable X .
2. The second field length is 8 characters. It is used for the name of a block or a variable. Note that the name of the regression constant should be always in small letters whereas the names of the other variables can be in big letters if they are entered as such in the database.
3. The length of the last two fields is 35 characters each. In the first field, the definition of a block or a variable is entered in French. The second field is used for the definition of a block or a variable in English.

A number is associated with each block and a category is assigned to each independent variable:

- Category 0: strictly positive variable and not a dummy ($X > 0$).
- Category 1: not strictly positive and not a dummy ($-\infty < X < +\infty$).
- Category 2: quasi-dummy ($X \geq 0$).
- Category 3: real dummy (X has only two values: 0 and a positive constant).

The category determines the way in which the elasticity of the dependent variable with respect to X is computed. For categories 2 and 3, the elasticity is corrected for the positive values of the variable X only. For further details about the computation of the elasticity, see *Tran, Gaudry and Dagenais (2008)*.

2. *ADULT9.tab* which contains the estimation results associated with *variant9*.
3. *Demtec.in* which contains the database.

```
$card vname='ADULTS',nbloc=6,neq=1,nestim=1,ndt=1,nvs=1,nlist=0,
  nstat=1,2,3,4,5,6,7,8,9,10,11,12,13$
fad
shonf
L1listdef.txt
D:\Levellnew\LevellTests\First Example\ADULT9.tab
D:\Levellnew\LevellTests\First Example\Demtec.in
(a8/(5d15.6))
```

•

2.4 First Example of Output File

An example of a Tablex output file, *Tablex.txt*, is stored in the same directory as the input file *Tablex.in*.

```
&CARD
NBLOC   =      9,
NEQ     =      1,
```

```

NESTIM = 1,
NDT = 1,
NVS = 1,
NLIST = 0,
NSTAT = 1, 2, 3, 4, 5, 6,
7, 8, 9, 10, 11, 12, 13
/

```

=====

PART I. Presented statistics

```

Model type L-1.6
Name of the variant ADULT
Version number of the variant 9
Dependent variable in the variant xcanfa
Reference variable X_ref for M.R.S. fad

```

=====

P = PRICES

```

REAL MUCTC ADULT TRANSIT FARE fad
BETA coefficient -0.27D+06
Derivative of Y (sample value) -0.23D+08
Derivative of E(Y) -0.23D+08
Derivative of SIGMA(Y) -0.85D+05
Derivative of GAMMA(Y) 0.27D+00
Elasticity of Y (sample value) -0.191
Elasticity of E(Y) -0.191
Elasticity of SIGMA(Y) -0.038
Elasticity of GAMMA(Y) -0.54D+00
Correlation (Y,X_k) original units -0.134
Correlation (Y,X_k) Box-Cox transf. 0.020
Marg. Rate of Subst. (d X_ref/d X_k) 0.10D+01
Conditional t-statistic for BETA (-8.01)
EL1

```

```

CONSUMER PRICE INDEX, MONTREAL p
BETA coefficient -0.95D+04
Derivative of Y (sample value) -0.11D+05
Derivative of E(Y) -0.11D+05
Derivative of SIGMA(Y) -0.40D+02
Derivative of GAMMA(Y) 0.12D-03
Elasticity of Y (sample value) -0.075
Elasticity of E(Y) -0.075
Elasticity of SIGMA(Y) -0.015
Elasticity of GAMMA(Y) -0.21D+00
Correlation (Y,X_k) original units -0.185
Correlation (Y,X_k) Box-Cox transf. 0.064
Marg. Rate of Subst. (d X_ref/d X_k) 0.47D-03
Conditional t-statistic for BETA (-0.35)
EL1

```

M = MOTOR VEHICLES

```

CARS IN MUCTC AREA nc
BETA coefficient -0.16D+04
Derivative of Y (sample value) -0.13D+02
Derivative of E(Y) -0.13D+02
Derivative of SIGMA(Y) -0.49D-01
Derivative of GAMMA(Y) 0.15D-06
Elasticity of Y (sample value) -0.206
Elasticity of E(Y) -0.206
Elasticity of SIGMA(Y) -0.041
Elasticity of GAMMA(Y) -0.58D+00
Correlation (Y,X_k) original units -0.203
Correlation (Y,X_k) Box-Cox transf. 0.058
Marg. Rate of Subst. (d X_ref/d X_k) 0.57D-06
Conditional t-statistic for BETA (-2.14)
EL1

```

NT = NETWORK - TIME SERVICE LEVELS

```

WAIT TIME FOR MUCTC VEHICLES tw

```

BETA coefficient	0.36D+05
Derivative of Y (sample value)	0.40D+06
Derivative of E(Y)	0.40D+06
Derivative of SIGMA(Y)	0.15D+04
Derivative of GAMMA(Y)	-0.46D-02
Elasticity of Y (sample value)	0.079
Elasticity of E(Y)	0.079
Elasticity of SIGMA(Y)	0.016
Elasticity of GAMMA(Y)	0.22D+00
Correlation (Y,X_k) original units	-0.352
Correlation (Y,X_k) Box-Cox transf.	-0.250
Marg. Rate of Subst. (d X_ref/d X_k)	-0.17D-01
Conditional t-statistic for BETA	(1.39)
EL1	
MUCTC IN-VEHICLE TRAVEL TIME tt	
BETA coefficient	-0.11D+06
Derivative of Y (sample value)	-0.41D+06
Derivative of E(Y)	-0.41D+06
Derivative of SIGMA(Y)	-0.15D+04
Derivative of GAMMA(Y)	0.48D-02
Elasticity of Y (sample value)	-0.440
Elasticity of E(Y)	-0.440
Elasticity of SIGMA(Y)	-0.087
Elasticity of GAMMA(Y)	-0.12D+01
Correlation (Y,X_k) original units	-0.002
Correlation (Y,X_k) Box-Cox transf.	-0.277
Marg. Rate of Subst. (d X_ref/d X_k)	0.18D-01
Conditional t-statistic for BETA	(-12.33)
EL1	
OFF-PEAK TRAVEL TIME BY CAR, MTL t2t	
BETA coefficient	0.20D+05
Derivative of Y (sample value)	0.13D+06
Derivative of E(Y)	0.13D+06
Derivative of SIGMA(Y)	0.47D+03
Derivative of GAMMA(Y)	-0.15D-02
Elasticity of Y (sample value)	0.063
Elasticity of E(Y)	0.063
Elasticity of SIGMA(Y)	0.012
Elasticity of GAMMA(Y)	0.18D+00
Correlation (Y,X_k) original units	-0.173
Correlation (Y,X_k) Box-Cox transf.	0.074
Marg. Rate of Subst. (d X_ref/d X_k)	-0.55D-02
Conditional t-statistic for BETA	(0.71)
EL1	
COMPLETE STRIKES BY MUCTC str	
(Quasi-dummy) ---	
BETA coefficient	-0.29D+05
Derivative of Y (sample value)	-0.79D+06
Derivative of E(Y)	-0.79D+06
Derivative of SIGMA(Y)	-0.29D+04
Derivative of GAMMA(Y)	0.90D-02
Elasticity of Y (sample value)	-0.569
Elasticity of E(Y)	-0.570
Elasticity of SIGMA(Y)	-0.113
Elasticity of GAMMA(Y)	-0.16D+01
Correlation (Y,X_k) original units	-0.502
Correlation (Y,X_k) Box-Cox transf.	-0.610
Marg. Rate of Subst. (d X_ref/d X_k)	0.34D-01
Conditional t-statistic for BETA	(-52.39)

NIW = NETWORK - INFRASTRUCTURE, WEATHER

TOO HOT OR COLD RELATIVE TO 56 F. tlk	
BETA coefficient	-0.36D+02
Derivative of Y (sample value)	-0.99D+03
Derivative of E(Y)	-0.99D+03
Derivative of SIGMA(Y)	-0.36D+01
Derivative of GAMMA(Y)	0.11D-04
Elasticity of Y (sample value)	-0.009
Elasticity of E(Y)	-0.009
Elasticity of SIGMA(Y)	-0.002
Elasticity of GAMMA(Y)	-0.27D-01
Correlation (Y,X_k) original units	0.091

Correlation (Y,X_k) Box-Cox transf.	0.052
Marg. Rate of Subst. (d X_ref/d X_k)	0.43D-04
Conditional t-statistic for BETA	(-1.34)

RAINFALL PER DAY, DORVAL AIRPORT rfk
(Quasi-dummy) ---

BETA coefficient	-0.74D+04
Derivative of Y (sample value)	-0.25D+06
Derivative of E(Y)	-0.25D+06
Derivative of SIGMA(Y)	-0.90D+03
Derivative of GAMMA(Y)	0.29D-02
Elasticity of Y (sample value)	-0.009
Elasticity of E(Y)	-0.009
Elasticity of SIGMA(Y)	-0.002
Elasticity of GAMMA(Y)	-0.26D-01
Correlation (Y,X_k) original units	-0.124
Correlation (Y,X_k) Box-Cox transf.	-0.054
Marg. Rate of Subst. (d X_ref/d X_k)	0.11D-01
Conditional t-statistic for BETA	(-4.01)

EL1

DUMMY FOR RFK dumrfk
(Dummy) =====

BETA coefficient	-0.26D+05
Derivative of Y (sample value)	-0.72D+06
Derivative of E(Y)	-0.72D+06
Derivative of SIGMA(Y)	-0.26D+04
Derivative of GAMMA(Y)	0.83D-02
Elasticity of Y (sample value)	-0.036
Elasticity of E(Y)	-0.036
Elasticity of SIGMA(Y)	-0.007
Elasticity of GAMMA(Y)	-0.10D+00
Correlation (Y,X_k) original units	0.011
Correlation (Y,X_k) Box-Cox transf.	-0.029
Marg. Rate of Subst. (d X_ref/d X_k)	0.31D-01
Conditional t-statistic for BETA	(-3.00)

SNOWFALL PER DAY, DORVAL AIRPORT sfk

BETA coefficient	-0.70D+02
Derivative of Y (sample value)	-0.19D+04
Derivative of E(Y)	-0.19D+04
Derivative of SIGMA(Y)	-0.70D+01
Derivative of GAMMA(Y)	0.22D-04
Elasticity of Y (sample value)	0.000
Elasticity of E(Y)	0.000
Elasticity of SIGMA(Y)	0.000
Elasticity of GAMMA(Y)	-0.71D-03
Correlation (Y,X_k) original units	0.100
Correlation (Y,X_k) Box-Cox transf.	0.039
Marg. Rate of Subst. (d X_ref/d X_k)	0.82D-04
Conditional t-statistic for BETA	(-0.18)

ACCUMULATED SNOWFALL,DORVAL AIRPORT csfmr

BETA coefficient	0.65D+02
Derivative of Y (sample value)	0.18D+04
Derivative of E(Y)	0.18D+04
Derivative of SIGMA(Y)	0.65D+01
Derivative of GAMMA(Y)	-0.20D-04
Elasticity of Y (sample value)	0.002
Elasticity of E(Y)	0.002
Elasticity of SIGMA(Y)	0.000
Elasticity of GAMMA(Y)	0.62D-02
Correlation (Y,X_k) original units	0.142
Correlation (Y,X_k) Box-Cox transf.	0.031
Marg. Rate of Subst. (d X_ref/d X_k)	-0.76D-04
Conditional t-statistic for BETA	(0.68)

CG = CONSUMERS - GENERAL CHARACTERISTICS

REAL AVERAGE WEEKLY EARNINGS, MTL rawem

BETA coefficient	0.35D+04
Derivative of Y (sample value)	0.14D+06
Derivative of E(Y)	0.14D+06
Derivative of SIGMA(Y)	0.50D+03

Derivative of GAMMA(Y)	-0.16D-02
Elasticity of Y (sample value)	0.537
Elasticity of E(Y)	0.538
Elasticity of SIGMA(Y)	0.107
Elasticity of GAMMA(Y)	0.15D+01
Correlation (Y,X_k) original units	-0.216
Correlation (Y,X_k) Box-Cox transf.	0.076
Marg. Rate of Subst. (d X_ref/d X_k)	-0.59D-02
Conditional t-statistic for BETA	(3.39)
	EL2

AFI = ACTIVITY - FINAL AND INTERMEDIATE	

EMPLOYMENT ACTIVITY INDEX,MTL	eanfp
BETA coefficient	0.60D-03
Derivative of Y (sample value)	0.72D-01
Derivative of E(Y)	0.72D-01
Derivative of SIGMA(Y)	0.26D-03
Derivative of GAMMA(Y)	-0.83D-09
Elasticity of Y (sample value)	0.443
Elasticity of E(Y)	0.443
Elasticity of SIGMA(Y)	0.088
Elasticity of GAMMA(Y)	0.13D+01
Correlation (Y,X_k) original units	0.181
Correlation (Y,X_k) Box-Cox transf.	0.105
Marg. Rate of Subst. (d X_ref/d X_k)	-0.31D-08
Conditional t-statistic for BETA	(5.95)
	EL2
INDEX COLL.,UNIV.ACTIVITY,MTL	rcutp
BETA coefficient	-0.10D+01
Derivative of Y (sample value)	-0.28D+02
Derivative of E(Y)	-0.28D+02
Derivative of SIGMA(Y)	-0.10D+00
Derivative of GAMMA(Y)	0.32D-06
Elasticity of Y (sample value)	-0.031
Elasticity of E(Y)	-0.031
Elasticity of SIGMA(Y)	-0.006
Elasticity of GAMMA(Y)	-0.88D-01
Correlation (Y,X_k) original units	-0.090
Correlation (Y,X_k) Box-Cox transf.	-0.144
Marg. Rate of Subst. (d X_ref/d X_k)	0.12D-05
Conditional t-statistic for BETA	(-2.94)
EXPO 67	ex7
(Quasi-dummy)	---
BETA coefficient	0.28D-01
Derivative of Y (sample value)	0.19D+01
Derivative of E(Y)	0.19D+01
Derivative of SIGMA(Y)	0.71D-02
Derivative of GAMMA(Y)	-0.22D-07
Elasticity of Y (sample value)	0.251
Elasticity of E(Y)	0.252
Elasticity of SIGMA(Y)	0.050
Elasticity of GAMMA(Y)	0.71D+00
Correlation (Y,X_k) original units	0.546
Correlation (Y,X_k) Box-Cox transf.	0.559
Marg. Rate of Subst. (d X_ref/d X_k)	-0.83D-07
Conditional t-statistic for BETA	(19.63)
	EL2
MAN AND HIS WORLD 1968	ex8
(Quasi-dummy)	---
BETA coefficient	0.92D-01
Derivative of Y (sample value)	0.25D+01
Derivative of E(Y)	0.25D+01
Derivative of SIGMA(Y)	0.92D-02
Derivative of GAMMA(Y)	-0.29D-07
Elasticity of Y (sample value)	0.086
Elasticity of E(Y)	0.086
Elasticity of SIGMA(Y)	0.017
Elasticity of GAMMA(Y)	0.24D+00
Correlation (Y,X_k) original units	0.057
Correlation (Y,X_k) Box-Cox transf.	-0.115
Marg. Rate of Subst. (d X_ref/d X_k)	-0.11D-06
Conditional t-statistic for BETA	(6.24)

```

MAN AND HIS WORLD 1969          ex9
(Quasi-dummy)          ---
  BETA coefficient          0.55D-01
  Derivative of Y (sample value) 0.15D+01
  Derivative of E(Y)        0.15D+01
  Derivative of SIGMA(Y)    0.55D-02
  Derivative of GAMMA(Y)   -0.17D-07
  Elasticity of Y (sample value) 0.044
  Elasticity of E(Y)        0.044
  Elasticity of SIGMA(Y)    0.009
  Elasticity of GAMMA(Y)   0.12D+00
  Correlation (Y,X_k) original units -0.089
  Correlation (Y,X_k) Box-Cox transf. -0.035
  Marg. Rate of Subst. (d X_ref/d X_k) -0.64D-07
  Conditional t-statistic for BETA_ ( 2.14)

MAN AND HIS WORLD 1970          ex0
(Quasi-dummy)          ---
  BETA coefficient          0.35D-03
  Derivative of Y (sample value) 0.95D-02
  Derivative of E(Y)        0.95D-02
  Derivative of SIGMA(Y)    0.35D-04
  Derivative of GAMMA(Y)   -0.11D-09
  Elasticity of Y (sample value) 0.000
  Elasticity of E(Y)        0.000
  Elasticity of SIGMA(Y)    0.000
  Elasticity of GAMMA(Y)   0.68D-03
  Correlation (Y,X_k) original units -0.139
  Correlation (Y,X_k) Box-Cox transf. -0.027
  Marg. Rate of Subst. (d X_ref/d X_k) -0.41D-09
  Conditional t-statistic for BETA_ ( 0.01)

MAN AND HIS WORLD 1971          ex1
(Quasi-dummy)          ---
  BETA coefficient          -0.62D-02
  Derivative of Y (sample value) -0.17D+00
  Derivative of E(Y)        -0.17D+00
  Derivative of SIGMA(Y)    -0.62D-03
  Derivative of GAMMA(Y)    0.20D-08
  Elasticity of Y (sample value) -0.004
  Elasticity of E(Y)        -0.004
  Elasticity of SIGMA(Y)    -0.001
  Elasticity of GAMMA(Y)   -0.11D-01
  Correlation (Y,X_k) original units -0.125
  Correlation (Y,X_k) Box-Cox transf. 0.005
  Marg. Rate of Subst. (d X_ref/d X_k) 0.73D-08
  Conditional t-statistic for BETA_ ( -0.08)

DUMMY FOR EX7                  dumex7
(Dummy)                        =====
  BETA coefficient          0.47D+05
  Derivative of Y (sample value) 0.13D+07
  Derivative of E(Y)        0.13D+07
  Derivative of SIGMA(Y)    0.47D+04
  Derivative of GAMMA(Y)   -0.15D-01
  Elasticity of Y (sample value) 0.064
  Elasticity of E(Y)        0.064
  Elasticity of SIGMA(Y)    0.013
  Elasticity of GAMMA(Y)   0.18D+00
  Correlation (Y,X_k) original units 0.365
  Correlation (Y,X_k) Box-Cox transf. 0.351
  Marg. Rate of Subst. (d X_ref/d X_k) -0.56D-01
  Conditional t-statistic for BETA_ ( 3.80)

-----
ADM      =ET CETERA - ADMINISTRATIVE
-----

MULT.FARE ZONES ADULT DBL.COUNTING za
(Quasi-dummy)          --
  BETA coefficient          0.37D+06
  Derivative of Y (sample value) 0.10D+08
  Derivative of E(Y)        0.10D+08
  Derivative of SIGMA(Y)    0.36D+05

```

Derivative of GAMMA(Y)	-0.12D+00
Elasticity of Y (sample value)	0.041
Elasticity of E(Y)	0.041
Elasticity of SIGMA(Y)	0.008
Elasticity of GAMMA(Y)	0.12D+00
Correlation (Y,X_k) original units	0.026
Correlation (Y,X_k) Box-Cox transf.	-0.007
Marg. Rate of Subst. (d X_ref/d X_k)	-0.43D+00
Conditional t-statistic for BETA	(5.31)

SPECULATIVE TICKET PURCHASE	ant
(Dummy)	===
BETA coefficient	-0.34D+05
Derivative of Y (sample value)	-0.93D+06
Derivative of E(Y)	-0.93D+06
Derivative of SIGMA(Y)	-0.34D+04
Derivative of GAMMA(Y)	0.11D-01
Elasticity of Y (sample value)	-0.046
Elasticity of E(Y)	-0.046
Elasticity of SIGMA(Y)	-0.009
Elasticity of GAMMA(Y)	-0.13D+00
Correlation (Y,X_k) original units	0.041
Correlation (Y,X_k) Box-Cox transf.	0.031
Marg. Rate of Subst. (d X_ref/d X_k)	0.40D-01
Conditional t-statistic for BETA	(-2.96)

SPECULATIVE TICKET PURCHASE LAG 1M.	ant11
(Dummy)	=====
BETA coefficient	0.22D+05
Derivative of Y (sample value)	0.61D+06
Derivative of E(Y)	0.61D+06
Derivative of SIGMA(Y)	0.22D+04
Derivative of GAMMA(Y)	-0.69D-02
Elasticity of Y (sample value)	0.030
Elasticity of E(Y)	0.030
Elasticity of SIGMA(Y)	0.006
Elasticity of GAMMA(Y)	0.85D-01
Correlation (Y,X_k) original units	0.031
Correlation (Y,X_k) Box-Cox transf.	0.032
Marg. Rate of Subst. (d X_ref/d X_k)	-0.26D-01
Conditional t-statistic for BETA	(2.70)

AGG =ET CETERA - AGGREGATION

WORKDAYS PER MONTH	wd
BETA coefficient	0.24D+05
Derivative of Y (sample value)	0.66D+06
Derivative of E(Y)	0.66D+06
Derivative of SIGMA(Y)	0.24D+04
Derivative of GAMMA(Y)	-0.75D-02
Elasticity of Y (sample value)	0.674
Elasticity of E(Y)	0.675
Elasticity of SIGMA(Y)	0.134
Elasticity of GAMMA(Y)	0.19D+01
Correlation (Y,X_k) original units	0.143
Correlation (Y,X_k) Box-Cox transf.	0.168
Marg. Rate of Subst. (d X_ref/d X_k)	-0.28D-01
Conditional t-statistic for BETA	(3.73)
	FL1

SATURDAYS PER MONTH	sat
BETA coefficient	0.15D+05
Derivative of Y (sample value)	0.40D+06
Derivative of E(Y)	0.40D+06
Derivative of SIGMA(Y)	0.15D+04
Derivative of GAMMA(Y)	-0.46D-02
Elasticity of Y (sample value)	0.086
Elasticity of E(Y)	0.086
Elasticity of SIGMA(Y)	0.017
Elasticity of GAMMA(Y)	0.24D+00
Correlation (Y,X_k) original units	-0.033
Correlation (Y,X_k) Box-Cox transf.	-0.056
Marg. Rate of Subst. (d X_ref/d X_k)	-0.17D-01
Conditional t-statistic for BETA	(2.18)

		FL1
SUNDAYS AND HOLIDAYS PER MONTH	shd	
BETA coefficient		0.12D+05
Derivative of Y (sample value)		0.33D+06
Derivative of E(Y)		0.33D+06
Derivative of SIGMA(Y)		0.12D+04
Derivative of GAMMA(Y)		-0.38D-02
Elasticity of Y (sample value)		0.085
Elasticity of E(Y)		0.085
Elasticity of SIGMA(Y)		0.017
Elasticity of GAMMA(Y)		0.24D+00
Correlation (Y,X_k) original units		-0.033
Correlation (Y,X_k) Box-Cox transf.		-0.136
Marg. Rate of Subst. (d X_ref/d X_k)		-0.14D-01
Conditional t-statistic for BETA		(1.77)
		FL1
REGRESSION CONSTANT	constant	
BETA coefficient		0.26D+06
Conditional t-statistic for BETA		(0.61)

HETEROSKEDASTICITY

REAL RETAIL SALES INDEX		shonf
DELTA coefficient		0.46D-04
Derivative of Y (sample value)		0.47D+01
Derivative of E(Y)		0.47D+01
Derivative of SIGMA(Y)		0.61D+00
Derivative of GAMMA(Y)		0.23D+00
Elasticity of Y (sample value)		0.049
Elasticity of E(Y)		0.049
Elasticity of SIGMA(Y)		0.345
Elasticity of GAMMA(Y)		-0.58D+06
Correlation (Y,Z_m) original units		0.049
Correlation (Y,Z_m) Box-Cox transf.		-0.022
Marg. Rate of Subst. (d X_ref/d Z_m)		0.47D+01
Conditional t-statistic for DELTA		(1.24)
		LAM 1

PART II. Parameters

t-statistic unconditional (=0) [=1]	
Model type	L-1.6
Name of the variant	ADULT
Version number of the variant	9
Dependent variable in the variant	xcanfa

Box-Cox transformations (estimated)

Lambda(y)	ELY	0.803 (5.64) [-1.38]
Lambda(x) - group 1	EL1	0.358 (1.48) [-2.65]
Lambda(x) - group 2	EL2	1.079 (5.30) [0.39]

Box-Cox transformations (fixed)

Lambda(x) - group 1	FL1	1.000
---------------------	-----	-------

Heteroskedasticity (estimated)

Lambda(z) for shonf	LAM 1	0.783
---------------------	-------	-------

(0.49)
[-0.14]

Autocorrelation

Order 1	RHO 1	0.014
		(0.44)
Order 12	RHO 12	0.957
		(26.60)

PART III. General statistics

Model type	L-1.6
Name of the variant	ADULT
Version number of the variant	9
Dependent variable in the variant	xcanfa

Log-likelihood -2363.40

Degrees of freedom 34

Pearson R2 0.974

Pearson R2 adjusted for Degrees of freedom 0.967

Pseudo-(L)-R2 0.982

Pseudo-(L)-R2 adjusted for Degrees of freedom 0.978

Average probability (Y=limit observation) 0.000

Sample - Number of observations 181

Estimation - Number of observations 166

- First observation 13

- Last observation 178

Total number of fixed or estimated parameters:

- Beta .Estimated 27

.Constant 1

- Lambda(y)

.Fixed 0

.Estimated .Constrained 0

.Distinct 1

- Lambda(x)

.Fixed 1

.Estimated 2

- Heteroskedasticity

Delta

.Fixed 0

.Estimated 1

Lambda(z)

.Fixed 0

.Estimated 1

- Autocorrelation

Rho .Estimated 2

- Total

.Fixed 1

.Estimated 35

Mean of observed Y 0.20D+08

Standard error of observed Y 0.23D+07

Skewness of observed Y 0.53D+00

Mean of Y, estimated at the mean 0.20D+08

Standard error of Y, estimated at the mean 0.37D+06

Skewness of Y, estimated at the mean -0.82D-01

Mean of estimated E(Y) 0.20D+08

Standard error of estimated E(Y) 0.23D+07

Skewness of estimated E(Y) 0.60D+00

M.R.S. between Measures M1, M2 and M3

M1 / M2	0.27D+03
M2 / M1	0.36D-02
M1 / M3	-0.87D+08
M3 / M1	-0.11D-07
M2 / M3	-0.32D+06
M3 / M2	-0.32D-05

Elasticity of substitution between M1, M2 and M3

M1 / M2	0.50D+01
M2 / M1	0.20D+00
M1 / M3	0.35D+00
M3 / M1	0.28D+01
M2 / M3	0.70D-01
M3 / M2	0.14D+02

2.5 Second Example of Input File

The second example of a Tablex input file, *Tablex.in*, is stored in *d:\Level1new\L1Tablex\Tablex Tests\Second Example* where *d:* is the drive where the program Level 1.6 is installed. To produce the associated Tablex, double-click on the batch file *RunTablex.bat* which is stored in the same directory.

This Tablex input file corresponds to the six variants estimated in Section 1.11.

```
$card nbloc=10,neq=6,nestim=1,ndt=2,nvs=1,nlist=0,
  nstat=1,2,3,4,5,6,7,8,9,10,11,12,13$
fscd
fscd
fscd
fscd
fad
fad
tend
shonf
L1listdef.txt
D:\Level1new\Level1Tests\Second Example\s_lin1.tab
D:\Level1new\Level1Tests\Second Example\s_bc12.tab
D:\Level1new\Level1Tests\Second Example\s_bc1au3.tab
D:\Level1new\Level1Tests\Second Example\s_bc1auhg4.tab
D:\Level1new\Level1Tests\Second Example\s_bc1auhg5.tab
D:\Level1new\Level1Tests\Second Example\s_bc2auhg6.tab
D:\Level1new\Level1Tests\Second Example\Demtec.in
(a8/(5d15.6))
```

2.6 Second Example of Output File

This is the Tablex output file *Tablex.txt* corresponding to the six variants estimated in Section 1.11.

```
&CARD
NBLOC = 10,
NEQ = 6,
NESTIM = 1,
NDT = 2,
NVS = 1,
NLIST = 0,
NSTAT = 1, 2, 3, 4, 5, 6, 7,
8, 9,
/ 10, 11, 12, 13
```

PART I. Presented statistics

Model type	L-1.6 s_lin	L-1.6 s_bcl	L-1.6 s_bclau	L-1.6 s_bclauhg	L-1.6 a_bclauhg	L-1.6 a_bc2auhg
Name of the variant	1	2	3	4	5	6
Version number of the variant						
Dependent variable in the variant	xcscnfa	xcscnfa	xcscnfa	xcscnfa	xcanfa	xcanfa
Reference variable X_ref for M.R.S.	fscd	fscd	fscd	fscd	fad	fad

P = PRICES

REAL MUCTC STUDENT TRANSIT FARE fscd

BETA coefficient	-0.19D+08	-0.25D+04	-0.16D+06	-0.23D+08
Derivative of Y (sample value)	-0.19D+08	-0.15D+08	-0.22D+08	-0.21D+08
Derivative of E(Y)	-0.19D+08	-0.15D+08	-0.22D+08	-0.21D+08
Derivative of SIGMA(Y)	0.00D+00	-0.58D+06	-0.40D+06	0.59D+04
Derivative of GAMMA(Y)	0.00D+00	0.29D+00	0.31D+00	0.43D-01
Elasticity of Y (sample value)	-0.376	-0.292	-0.419	-0.410
Elasticity of E(Y)	-0.376	-0.290	-0.419	-0.410
Elasticity of SIGMA(Y)	0.000	-0.142	-0.116	0.002
Elasticity of GAMMA(Y)	0.00D+00	0.15D+00	0.35D+00	-0.80D+00
Correlation (Y,X_k) original units	0.012	0.012	0.012	0.012
Correlation (Y,X_k) Box-Cox transf.	0.012	0.007	-0.089	-0.682
Marg. Rate of Subst. (d X_ref/d X_k)	0.10D+01	0.10D+01	0.10D+01	0.10D+01
Conditional t-statistic for BETA	(-2.31)	(-1.10)	(-2.39)	(-2.74)

EL1 EL1 EL1

REAL MUCTC ADULT TRANSIT FARE fad

BETA coefficient	-0.50D+07	-0.56D+06
Derivative of Y (sample value)	-0.23D+08	-0.24D+08
Derivative of E(Y)	-0.23D+08	-0.24D+08
Derivative of SIGMA(Y)	-0.39D+05	-0.94D+05
Derivative of GAMMA(Y)	0.26D+00	0.26D+00
Elasticity of Y (sample value)	-0.193	-0.193
Elasticity of E(Y)	-0.193	-0.193
Elasticity of SIGMA(Y)	-0.016	-0.041
Elasticity of GAMMA(Y)	-0.58D+00	-0.55D+00
Correlation (Y,X_k) original units	-0.137	-0.137
Correlation (Y,X_k) Box-Cox transf.	0.034	0.015
Marg. Rate of Subst. (d X_ref/d X_k)	0.10D+01	0.10D+01
Conditional t-statistic for BETA	(-7.41)	(-7.81)

EL1 EL1

CONSUMER PRICE INDEX, MONTREAL p

BETA coefficient	-0.24D+05	-0.26D+03	0.80D+03	-0.38D+04	0.59D+04	0.36D+03
Derivative of Y (sample value)	-0.24D+05	-0.35D+05	0.13D+05	-0.37D+04	0.16D+05	0.86D+04
Derivative of E(Y)	-0.24D+05	-0.35D+05	0.13D+05	-0.37D+04	0.16D+05	0.86D+04
Derivative of SIGMA(Y)	0.00D+00	-0.14D+04	0.24D+03	0.10D+01	0.26D+02	0.34D+02
Derivative of GAMMA(Y)	0.00D+00	0.68D-03	-0.18D-03	0.75D-05	-0.17D-03	-0.94D-04
Elasticity of Y (sample value)	-1.081	-1.596	0.577	-0.166	0.111	0.060
Elasticity of E(Y)	-1.081	-1.585	0.577	-0.166	0.111	0.060
Elasticity of SIGMA(Y)	0.000	-0.777	0.160	0.001	0.009	0.013
Elasticity of GAMMA(Y)	0.00D+00	0.84D+00	-0.48D+00	-0.32D+00	0.33D+00	0.17D+00
Correlation (Y,X_k) original units	0.067	0.067	0.067	0.067	-0.186	-0.186
Correlation (Y,X_k) Box-Cox transf.	0.067	0.057	0.027	0.640	0.027	0.043
Marg. Rate of Subst. (d X_ref/d X_k)	0.12D-02	0.23D-02	-0.59D-03	0.17D-03	-0.68D-03	-0.37D-03
Conditional t-statistic for BETA	(-0.71)	(-0.74)	(0.30)	(-0.12)	(0.47)	(0.26)

EL1 EL1 EL1 EL1 EL1

M = MOTOR VEHICLES

CARS IN MUCTC AREA nc

BETA coefficient	-0.91D+01	-0.23D+01	-0.60D+01	-0.10D+02	-0.18D+02	-0.17D+01
Derivative of Y (sample value)	-0.91D+01	-0.70D+01	-0.11D+02	-0.10D+02	-0.25D+02	-0.21D+02
Derivative of E(Y)	-0.91D+01	-0.71D+01	-0.11D+02	-0.10D+02	-0.25D+02	-0.21D+02
Derivative of SIGMA(Y)	0.00D+00	-0.27D+00	-0.21D+00	0.29D-02	-0.42D-01	-0.84D-01
Derivative of GAMMA(Y)	0.00D+00	0.14D-06	0.16D-06	0.21D-07	0.28D-06	0.23D-06
Elasticity of Y (sample value)	-0.923	-0.710	-1.138	-1.036	-0.393	-0.329
Elasticity of E(Y)	-0.923	-0.705	-1.138	-1.035	-0.393	-0.329
Elasticity of SIGMA(Y)	0.000	-0.345	-0.315	0.005	-0.033	-0.070
Elasticity of GAMMA(Y)	0.00D+00	0.38D+00	0.94D+00	-0.20D+01	-0.12D+01	-0.93D+00
Correlation (Y,X_k) original units	0.097	0.097	0.097	0.097	-0.203	-0.203
Correlation (Y,X_k) Box-Cox transf.	0.097	0.092	0.070	0.057	-0.005	0.009
Marg. Rate of Subst. (d X_ref/d X_k)	0.47D-06	0.47D-06	0.52D-06	0.48D-06	0.11D-05	0.90D-06
Conditional t-statistic for BETA	(-1.38)	(-0.80)	(-1.66)	(-1.69)	(-3.42)	(-2.47)

EL1 EL1 EL1 EL1 EL1

NT = NETWORK - TIME SERVICE LEVELS

WAIT TIME FOR MUCTC VEHICLES tw

BETA coefficient	-0.54D+05	-0.40D+03	-0.50D+04	-0.27D+06	-0.18D+05	0.65D+02
Derivative of Y (sample value)	-0.54D+05	-0.30D+06	-0.21D+06	-0.26D+06	-0.64D+05	0.21D+04
Derivative of E(Y)	-0.54D+05	-0.30D+06	-0.21D+06	-0.26D+06	-0.64D+05	0.21D+04
Derivative of SIGMA(Y)	0.00D+00	-0.12D+05	-0.40D+04	0.71D+02	-0.11D+03	0.83D+01

Derivative of GAMMA(Y)	0.00D+00	0.59D-02	0.31D-02	0.52D-03	0.70D-03	-0.23D-04
Elasticity of Y (sample value)	-0.070	-0.392	-0.277	-0.331	-0.013	0.000
Elasticity of E(Y)	-0.070	-0.389	-0.277	-0.331	-0.013	0.000
Elasticity of SIGMA(Y)	0.000	-0.191	-0.077	0.001	-0.001	0.000
Elasticity of GAMMA(Y)	0.00D+00	0.21D+00	0.23D+00	-0.65D+00	-0.38D-01	0.12D-02
Correlation (Y,X_k) original units	-0.070	-0.070	-0.070	-0.070	-0.352	-0.352
Correlation (Y,X_k) Box-Cox transf.	-0.070	-0.083	-0.047	0.425	-0.342	-0.323
Marg. Rate of Subst. (d X_ref/d X_k)	0.28D-02	0.20D-01	0.99D-02	0.12D-01	0.27D-02	-0.88D-04
Conditional t-statistic for BETA	(-0.33)	(-0.95)	(-0.79)	(-0.87)	(-0.20)	(0.01)
		EL1	EL1	EL1	EL1	EL1
MUCTC IN-VEHICLE TRAVEL TIME	tt					
BETA coefficient	0.43D+05	0.22D+03	-0.55D+03	-0.87D+04	-0.15D+06	-0.15D+05
Derivative of Y (sample value)	0.43D+05	0.75D+05	-0.15D+05	-0.82D+04	-0.46D+06	-0.43D+06
Derivative of E(Y)	0.43D+05	0.75D+05	-0.15D+05	-0.82D+04	-0.46D+06	-0.43D+06
Derivative of SIGMA(Y)	0.00D+00	0.29D+04	-0.27D+03	0.23D+01	-0.75D+03	-0.17D+04
Derivative of GAMMA(Y)	0.00D+00	-0.14D-02	0.21D-03	0.17D-04	0.50D-02	0.46D-02
Elasticity of Y (sample value)	0.297	0.513	-0.102	-0.057	-0.486	-0.451
Elasticity of E(Y)	0.297	0.510	-0.102	-0.057	-0.486	-0.451
Elasticity of SIGMA(Y)	0.000	0.250	-0.028	0.000	-0.041	-0.097
Elasticity of GAMMA(Y)	0.00D+00	-0.27D+00	0.85D-01	-0.11D+00	-0.15D+01	-0.13D+01
Correlation (Y,X_k) original units	0.055	0.055	0.055	0.055	0.002	0.002
Correlation (Y,X_k) Box-Cox transf.	0.055	0.060	-0.009	0.662	-0.351	-0.337
Marg. Rate of Subst. (d X_ref/d X_k)	-0.22D-02	-0.49D-02	0.69D-03	0.39D-03	0.20D-01	0.18D-01
Conditional t-statistic for BETA	(0.80)	(0.69)	(-0.25)	(-0.09)	(-14.88)	(-13.99)
		EL1	EL1	EL1	EL1	EL1
OFF-PEAK TRAVEL TIME BY CAR, MTL	t2t					
BETA coefficient	0.31D+06	0.12D+04	0.67D+04	0.27D+06	0.77D+05	0.82D+04
Derivative of Y (sample value)	0.31D+06	0.61D+06	0.22D+06	0.26D+06	0.26D+06	0.24D+06
Derivative of E(Y)	0.31D+06	0.61D+06	0.22D+06	0.26D+06	0.26D+06	0.24D+06
Derivative of SIGMA(Y)	0.00D+00	0.23D+05	0.41D+04	-0.71D+02	0.42D+03	0.97D+03
Derivative of GAMMA(Y)	0.00D+00	-0.12D-01	-0.32D-02	-0.52D-03	-0.28D-02	-0.26D-02
Elasticity of Y (sample value)	0.997	1.944	0.709	0.818	0.127	0.120
Elasticity of E(Y)	0.997	1.931	0.710	0.818	0.127	0.120
Elasticity of SIGMA(Y)	0.000	0.946	0.197	-0.004	0.011	0.026
Elasticity of GAMMA(Y)	0.00D+00	-0.10D+01	-0.59D+00	0.16D+01	0.38D+00	0.34D+00
Correlation (Y,X_k) original units	-0.071	-0.071	-0.071	-0.071	-0.171	-0.171
Correlation (Y,X_k) Box-Cox transf.	-0.071	-0.069	-0.116	0.618	0.028	0.036
Marg. Rate of Subst. (d X_ref/d X_k)	-0.16D-01	-0.40D-01	-0.10D-01	-0.12D-01	-0.11D-01	-0.10D-01
Conditional t-statistic for BETA	(1.27)	(1.35)	(0.60)	(0.67)	(1.12)	(1.03)
		EL1	EL1	EL1	EL1	EL1
COMPLETE STRIKES BY MUCTC	str					
(Quasi-dummy)	---					
BETA coefficient	-0.13D+06	-0.96D+02	-0.20D+04	-0.12D+06	-0.18D+06	-0.22D+05
Derivative of Y (sample value)	-0.13D+06	-0.14D+06	-0.13D+06	-0.12D+06	-0.74D+06	-0.79D+06
Derivative of E(Y)	-0.13D+06	-0.14D+06	-0.13D+06	-0.12D+06	-0.74D+06	-0.79D+06
Derivative of SIGMA(Y)	0.00D+00	-0.56D+04	-0.23D+04	0.32D+02	-0.12D+04	-0.32D+04
Derivative of GAMMA(Y)	0.00D+00	0.28D-02	0.18D-02	0.24D-03	0.81D-02	0.86D-02
Elasticity of Y (sample value)	-0.608	-0.680	-0.597	-0.550	-0.538	-0.575
Elasticity of E(Y)	-0.608	-0.675	-0.597	-0.549	-0.538	-0.575
Elasticity of SIGMA(Y)	0.000	-0.331	-0.166	0.002	-0.046	-0.123
Elasticity of GAMMA(Y)	0.00D+00	0.36D+00	0.50D+00	-0.11D+01	-0.16D+01	-0.16D+01
Correlation (Y,X_k) original units	-0.228	-0.228	-0.228	-0.228	-0.501	-0.501
Correlation (Y,X_k) Box-Cox transf.	-0.228	-0.241	-0.345	-0.293	-0.587	-0.611
Marg. Rate of Subst. (d X_ref/d X_k)	0.66D-02	0.96D-02	0.58D-02	0.55D-02	0.32D-01	0.34D-01
Conditional t-statistic for BETA	(-11.52)	(-4.80)	(-13.29)	(-11.91)	(-49.72)	(-52.57)
RESTRUCTURATION OF LINES FOR METRO	struct1					
(Quasi-dummy)	-----					
BETA coefficient	0.11D+06	0.15D+03	-0.34D+04	-0.19D+06		
Derivative of Y (sample value)	0.11D+06	0.22D+06	-0.21D+06	-0.18D+06		
Derivative of E(Y)	0.11D+06	0.23D+06	-0.21D+06	-0.18D+06		
Derivative of SIGMA(Y)	0.00D+00	0.86D+04	-0.39D+04	0.50D+02		
Derivative of GAMMA(Y)	0.00D+00	-0.43D-02	0.30D-02	0.37D-03		
Elasticity of Y (sample value)	0.035	0.072	-0.067	-0.058		
Elasticity of E(Y)	0.035	0.071	-0.067	-0.058		
Elasticity of SIGMA(Y)	0.000	0.035	-0.019	0.000		
Elasticity of GAMMA(Y)	0.00D+00	-0.38D-01	0.56D-01	-0.11D+00		
Correlation (Y,X_k) original units	0.061	0.061	0.061	0.061		
Correlation (Y,X_k) Box-Cox transf.	0.061	0.056	0.038	-0.492		
Marg. Rate of Subst. (d X_ref/d X_k)	-0.56D-02	-0.15D-01	0.98D-02	0.85D-02		
Conditional t-statistic for BETA	(0.35)	(0.44)	(-0.68)	(-0.45)		
RESIDUAL SUBWAY FIRE IMPACT	fir					
(Quasi-dummy)	---					
BETA coefficient					-0.77D+04	-0.76D+03
Derivative of Y (sample value)					-0.31D+05	-0.27D+05
Derivative of E(Y)					-0.31D+05	-0.27D+05
Derivative of SIGMA(Y)					-0.51D+02	-0.11D+03
Derivative of GAMMA(Y)					0.34D-03	0.30D-03
Elasticity of Y (sample value)					-0.034	-0.030
Elasticity of E(Y)					-0.034	-0.030
Elasticity of SIGMA(Y)					-0.003	-0.006
Elasticity of GAMMA(Y)					-0.10D+00	-0.84D-01
Correlation (Y,X_k) original units					-0.023	-0.023
Correlation (Y,X_k) Box-Cox transf.					-0.016	-0.019
Marg. Rate of Subst. (d X_ref/d X_k)					0.13D-02	0.12D-02

Conditional t-statistic for BETA

(0.00) (0.00)

NIW = NETWORK - INFRASTRUCTURE, WEATHER

TOO HOT OR COLD RELATIVE TO 56 F. tlk

BETA coefficient	0.10D+04	0.60D+00	0.18D+02	0.34D+03	-0.45D+02	-0.78D+01
Derivative of Y (sample value)	0.10D+04	0.91D+03	0.11D+04	0.32D+03	-0.18D+03	-0.28D+03
Derivative of E(Y)	0.10D+04	0.91D+03	0.11D+04	0.32D+03	-0.18D+03	-0.28D+03
Derivative of SIGMA(Y)	0.00D+00	0.35D+02	0.20D+02	-0.88D-01	-0.30D+00	-0.11D+01
Derivative of GAMMA(Y)	0.00D+00	-0.18D-04	-0.16D-04	-0.65D-06	0.20D-05	0.30D-05
Elasticity of Y (sample value)	0.065	0.057	0.068	0.020	-0.002	-0.003
Elasticity of E(Y)	0.065	0.056	0.068	0.020	-0.002	-0.003
Elasticity of SIGMA(Y)	0.000	0.028	0.019	0.000	0.000	-0.001
Elasticity of GAMMA(Y)	0.00D+00	-0.30D-01	-0.57D-01	0.39D-01	-0.53D-02	-0.76D-02
Correlation (Y,X_k) original units	0.285	0.285	0.285	0.285	0.091	0.091
Correlation (Y,X_k) Box-Cox transf.	0.285	0.288	0.384	0.309	0.059	0.058
Marg. Rate of Subst. (d X_ref/d X_k)	-0.54D-04	-0.60D-04	-0.51D-04	-0.15D-04	0.79D-05	0.12D-04
Conditional t-statistic for BETA	(3.17)	(1.82)	(2.55)	(0.68)	(-0.24)	(-0.36)

RAINFALL PER DAY, DORVAL AIRPORT rfk
(Quasi-dummy) ---

BETA coefficient	-0.51D+05	-0.41D+02	-0.90D+03	-0.49D+05	-0.56D+05	-0.68D+04
Derivative of Y (sample value)	-0.51D+05	-0.62D+05	-0.56D+05	-0.46D+05	-0.23D+06	-0.25D+06
Derivative of E(Y)	-0.51D+05	-0.63D+05	-0.56D+05	-0.46D+05	-0.23D+06	-0.25D+06
Derivative of SIGMA(Y)	0.00D+00	-0.24D+04	-0.10D+04	0.13D+02	-0.37D+03	-0.99D+03
Derivative of GAMMA(Y)	0.00D+00	0.12D-02	0.80D-03	0.93D-04	0.25D-02	0.27D-02
Elasticity of Y (sample value)	-0.012	-0.014	-0.013	-0.011	-0.008	-0.009
Elasticity of E(Y)	-0.012	-0.014	-0.013	-0.011	-0.008	-0.009
Elasticity of SIGMA(Y)	0.000	-0.007	-0.004	0.000	-0.001	-0.002
Elasticity of GAMMA(Y)	0.00D+00	0.77D-02	0.11D-01	-0.21D-01	-0.24D-01	-0.26D-01
Correlation (Y,X_k) original units	-0.374	-0.374	-0.374	-0.374	-0.122	-0.122
Correlation (Y,X_k) Box-Cox transf.	-0.374	-0.382	-0.299	0.007	-0.076	-0.062
Marg. Rate of Subst. (d X_ref/d X_k)	0.26D-02	0.41D-02	0.26D-02	0.22D-02	0.96D-02	0.11D-01
Conditional t-statistic for BETA	(-0.87)	(-0.80)	(-1.07)	(-1.15)	(-2.94)	(-3.46)

EL1

SNOWFALL PER DAY, DORVAL AIRPORT sfk

BETA coefficient	-0.36D+05	-0.21D+02	-0.24D+03	-0.11D+05	-0.10D+03	0.12D+03
Derivative of Y (sample value)	-0.36D+05	-0.32D+05	-0.15D+05	-0.10D+05	-0.42D+03	0.42D+04
Derivative of E(Y)	-0.36D+05	-0.32D+05	-0.15D+05	-0.10D+05	-0.42D+03	0.42D+04
Derivative of SIGMA(Y)	0.00D+00	-0.12D+04	-0.27D+03	0.29D+01	-0.70D+00	0.17D+02
Derivative of GAMMA(Y)	0.00D+00	0.61D-03	0.21D-03	0.21D-04	0.47D-05	-0.45D-04
Elasticity of Y (sample value)	-0.031	-0.027	-0.013	-0.009	0.000	0.001
Elasticity of E(Y)	-0.031	-0.027	-0.013	-0.009	0.000	0.001
Elasticity of SIGMA(Y)	0.000	-0.013	-0.004	0.000	0.000	0.000
Elasticity of GAMMA(Y)	0.00D+00	0.15D-01	0.11D-01	-0.17D-01	-0.17D-03	0.16D-02
Correlation (Y,X_k) original units	0.253	0.253	0.253	0.253	0.098	0.098
Correlation (Y,X_k) Box-Cox transf.	0.253	0.269	0.188	0.171	0.041	0.042
Marg. Rate of Subst. (d X_ref/d X_k)	0.19D-02	0.21D-02	0.69D-03	0.49D-03	0.18D-04	-0.18D-03
Conditional t-statistic for BETA	(-3.25)	(-2.42)	(-1.51)	(-1.14)	(-0.04)	(0.37)

ACCUMULATED SNOWFALL,DORVAL AIRPORT csfmr

BETA coefficient	0.22D+04	0.13D+01	0.16D+02	0.17D+04	0.50D+03	0.43D+02
Derivative of Y (sample value)	0.22D+04	0.20D+04	0.97D+03	0.16D+04	0.20D+04	0.16D+04
Derivative of E(Y)	0.22D+04	0.20D+04	0.97D+03	0.16D+04	0.20D+04	0.16D+04
Derivative of SIGMA(Y)	0.00D+00	0.76D+02	0.18D+02	-0.44D+00	0.33D+01	0.62D+01
Derivative of GAMMA(Y)	0.00D+00	-0.38D-04	-0.14D-04	-0.33D-05	-0.22D-04	-0.17D-04
Elasticity of Y (sample value)	0.018	0.016	0.008	0.013	0.003	0.002
Elasticity of E(Y)	0.018	0.016	0.008	0.013	0.003	0.002
Elasticity of SIGMA(Y)	0.000	0.008	0.002	0.000	0.000	0.000
Elasticity of GAMMA(Y)	0.00D+00	-0.84D-02	-0.65D-02	0.25D-01	0.75D-02	0.55D-02
Correlation (Y,X_k) original units	0.354	0.354	0.354	0.354	0.142	0.142
Correlation (Y,X_k) Box-Cox transf.	0.354	0.357	0.309	0.309	0.031	0.033
Marg. Rate of Subst. (d X_ref/d X_k)	-0.11D-03	-0.13D-03	-0.45D-04	-0.75D-04	-0.87D-04	-0.66D-04
Conditional t-statistic for BETA	(1.79)	(1.24)	(0.62)	(0.95)	(0.77)	(0.62)

CG = CONSUMERS - GENERAL CHARACTERISTICS

REAL AVERAGE WEEKLY EARNINGS, MTL rawem

BETA coefficient	0.36D+05	0.47D+02	0.57D+03	0.34D+05	0.52D+05	0.55D+04
Derivative of Y (sample value)	0.36D+05	0.83D+04	0.11D+05	0.32D+05	0.15D+06	0.14D+06
Derivative of E(Y)	0.36D+05	0.84D+04	0.11D+05	0.32D+05	0.15D+06	0.14D+06
Derivative of SIGMA(Y)	0.00D+00	0.32D+03	0.19D+03	-0.90D+01	0.24D+03	0.54D+03
Derivative of GAMMA(Y)	0.00D+00	-0.16D-03	-0.15D-03	-0.65D-04	-0.16D-02	-0.15D-02
Elasticity of Y (sample value)	0.915	0.213	0.270	0.823	0.576	0.538
Elasticity of E(Y)	0.915	0.212	0.270	0.823	0.576	0.538
Elasticity of SIGMA(Y)	0.000	0.104	0.075	-0.004	0.049	0.115
Elasticity of GAMMA(Y)	0.00D+00	-0.11D+00	-0.22D+00	0.16D+01	0.17D+01	0.15D+01
Correlation (Y,X_k) original units	0.084	0.084	0.084	0.084	-0.215	-0.215
Correlation (Y,X_k) Box-Cox transf.	0.084	0.072	0.023	0.616	0.031	0.047
Marg. Rate of Subst. (d X_ref/d X_k)	-0.18D-02	-0.55D-03	-0.49D-03	-0.15D-02	-0.62D-02	-0.58D-02
Conditional t-statistic for BETA	(1.49)	(0.28)	(0.47)	(1.03)	(3.47)	(3.27)

EL1

EL1

EL1

EL1

EL1

CA = CONSUMERS - AGE

COMPUTER CONTROL.REDUCED FARE CARDS cheat2
(Dummy) =====

BETA coefficient	-0.24D+06	-0.17D+03	-0.92D+03	-0.19D+06
Derivative of Y (sample value)	-0.24D+06	-0.26D+06	-0.58D+05	-0.18D+06
Derivative of E(Y)	-0.24D+06	-0.26D+06	-0.58D+05	-0.18D+06
Derivative of SIGMA(Y)	0.00D+00	-0.10D+05	-0.11D+04	0.50D+02
Derivative of GAMMA(Y)	0.00D+00	0.50D-02	0.82D-03	0.36D-03
Elasticity of Y (sample value)	-0.077	-0.083	-0.019	-0.057
Elasticity of E(Y)	-0.077	-0.082	-0.019	-0.057
Elasticity of SIGMA(Y)	0.000	-0.040	-0.005	0.000
Elasticity of GAMMA(Y)	0.00D+00	0.44D-01	0.15D-01	-0.11D+00
Correlation (Y,X_k) original units	-0.029	-0.029	-0.029	-0.029
Correlation (Y,X_k) Box-Cox transf.	-0.029	-0.028	-0.142	-0.232
Marg. Rate of Subst. (d X_ref/d X_k)	0.12D-01	0.17D-01	0.27D-02	0.84D-02
Conditional t-statistic for BETA	(-1.16)	(-1.29)	(-0.27)	(-0.57)

SUMMER EXPIR.REDUCED FARE CARDS cardex
(Dummy) =====

BETA coefficient	0.59D+05	0.28D+02	-0.17D+04	-0.97D+05
Derivative of Y (sample value)	0.59D+05	0.42D+05	-0.11D+06	-0.90D+05
Derivative of E(Y)	0.59D+05	0.42D+05	-0.11D+06	-0.90D+05
Derivative of SIGMA(Y)	0.00D+00	0.16D+04	-0.20D+04	0.25D+02
Derivative of GAMMA(Y)	0.00D+00	-0.82D-03	0.15D-02	0.18D-03
Elasticity of Y (sample value)	0.019	0.014	-0.035	-0.029
Elasticity of E(Y)	0.019	0.013	-0.035	-0.029
Elasticity of SIGMA(Y)	0.000	0.007	-0.010	0.000
Elasticity of GAMMA(Y)	0.00D+00	-0.72D-02	0.29D-01	-0.57D-01
Correlation (Y,X_k) original units	-0.575	-0.575	-0.575	-0.575
Correlation (Y,X_k) Box-Cox transf.	-0.575	-0.599	-0.400	-0.336
Marg. Rate of Subst. (d X_ref/d X_k)	-0.30D-02	-0.28D-02	0.50D-02	0.43D-02
Conditional t-statistic for BETA	(0.40)	(0.19)	(-0.53)	(-0.43)

AFI = ACTIVITY - FINAL AND INTERMEDIATE

SCHOOL AND JR.COLLEGE REGIST., MTL rscmp

BETA coefficient	0.43D+01	0.31D-02	0.58D-01	0.36D+01
Derivative of Y (sample value)	0.43D+01	0.46D+01	0.36D+01	0.33D+01
Derivative of E(Y)	0.43D+01	0.47D+01	0.36D+01	0.33D+01
Derivative of SIGMA(Y)	0.00D+00	0.18D+00	0.67D-01	-0.93D-03
Derivative of GAMMA(Y)	0.00D+00	-0.90D-07	-0.52D-07	-0.68D-08
Elasticity of Y (sample value)	0.442	0.474	0.370	0.341
Elasticity of E(Y)	0.442	0.470	0.370	0.341
Elasticity of SIGMA(Y)	0.000	0.230	0.103	-0.002
Elasticity of GAMMA(Y)	0.00D+00	-0.25D+00	-0.31D+00	0.67D+00
Correlation (Y,X_k) original units	0.811	0.811	0.811	0.811
Correlation (Y,X_k) Box-Cox transf.	0.811	0.826	0.642	0.638
Marg. Rate of Subst. (d X_ref/d X_k)	-0.22D-06	-0.31D-06	-0.17D-06	-0.16D-06
Conditional t-statistic for BETA	(11.84)	(8.60)	(6.08)	(6.45)

SECONDARY SCHOOL REGISTRATION tend

BETA coefficient	0.18D+05	0.12D+03	0.11D+04	0.20D+05
Derivative of Y (sample value)	0.18D+05	0.20D+05	0.20D+05	0.19D+05
Derivative of E(Y)	0.18D+05	0.20D+05	0.20D+05	0.19D+05
Derivative of SIGMA(Y)	0.00D+00	0.78D+03	0.37D+03	0.13D+04
Derivative of GAMMA(Y)	0.00D+00	-0.39D-03	-0.29D-03	-0.18D+01
Elasticity of Y (sample value)	0.537	0.605	0.603	0.566
Elasticity of E(Y)	0.537	0.601	0.603	0.566
Elasticity of SIGMA(Y)	0.000	0.294	0.167	0.646
Elasticity of GAMMA(Y)	0.00D+00	-0.32D+00	-0.50D+00	0.51D+05
Correlation (Y,X_k) original units	0.154	0.154	0.154	0.154
Correlation (Y,X_k) Box-Cox transf.	0.154	0.149	0.161	-0.602
Marg. Rate of Subst. (d X_ref/d X_k)	-0.93D-03	-0.13D-02	-0.93D-03	-0.89D-03
Conditional t-statistic for BETA	(2.18)	(1.78)	(2.22)	(1.74)

EL1 EL1 EL1

REAL RETAIL SALES INDEX shonf

BETA coefficient	0.21D+01	0.49D+00	0.78D+00	0.13D+01	0.41D+01	0.40D+00
Derivative of Y (sample value)	0.21D+01	0.18D+01	0.16D+01	0.13D+01	0.42D+01	0.43D+01
Derivative of E(Y)	0.21D+01	0.18D+01	0.16D+01	0.13D+01	0.42D+01	0.43D+01
Derivative of SIGMA(Y)	0.00D+00	0.70D-01	0.30D-01	-0.37D-03	0.55D+00	0.51D+00
Derivative of GAMMA(Y)	0.00D+00	-0.35D-07	-0.23D-07	-0.27D-08	-0.73D-01	-0.41D-01
Elasticity of Y (sample value)	0.142	0.125	0.112	0.091	0.044	0.045
Elasticity of E(Y)	0.142	0.124	0.112	0.091	0.044	0.045
Elasticity of SIGMA(Y)	0.000	0.061	0.031	0.000	0.298	0.289
Elasticity of GAMMA(Y)	0.00D+00	-0.66D-01	-0.93D-01	0.18D+00	0.21D+06	0.11D+06
Correlation (Y,X_k) original units	0.237	0.237	0.237	0.237	0.038	0.038
Correlation (Y,X_k) Box-Cox transf.	0.237	0.240	0.138	0.328	-0.011	-0.032
Marg. Rate of Subst. (d X_ref/d X_k)	-0.11D-06	-0.12D-06	-0.76D-07	-0.62D-07	-0.18D-06	-0.18D-06
Conditional t-statistic for BETA	(3.74)	(2.70)	(2.38)	(1.59)	(1.37)	(1.35)

EL1 EL1 EL1 EL1 EL1

EMPLOYMENT ACTIVITY INDEX,MTL eanfp

BETA coefficient		0.73D-01	0.80D-02
Derivative of Y (sample value)		0.63D-01	0.60D-01
Derivative of E(Y)		0.63D-01	0.60D-01
Derivative of SIGMA(Y)		0.10D-03	0.24D-03
Derivative of GAMMA(Y)		-0.69D-09	-0.66D-09
Elasticity of Y (sample value)		0.386	0.369
Elasticity of E(Y)		0.386	0.369
Elasticity of SIGMA(Y)		0.033	0.079
Elasticity of GAMMA(Y)		0.12D+01	0.10D+01
Correlation (Y,X_k) original units		0.182	0.182
Correlation (Y,X_k) Box-Cox transf.		0.093	0.097
Marg. Rate of Subst. (d X_ref/d X_k)		-0.27D-08	-0.26D-08
Conditional t-statistic for BETA		(5.53)	(5.34)
	EL1	EL1	
INDEX COLL.,UNIV.ACTIVITY,MTL rcutp			
BETA coefficient		-0.47D+01	-0.47D+00
Derivative of Y (sample value)		-0.19D+02	-0.17D+02
Derivative of E(Y)		-0.19D+02	-0.17D+02
Derivative of SIGMA(Y)		-0.32D-01	-0.67D-01
Derivative of GAMMA(Y)		0.21D-06	0.18D-06
Elasticity of Y (sample value)		-0.022	-0.020
Elasticity of E(Y)		-0.022	-0.020
Elasticity of SIGMA(Y)		-0.002	-0.004
Elasticity of GAMMA(Y)		-0.67D-01	-0.56D-01
Correlation (Y,X_k) original units		-0.093	-0.093
Correlation (Y,X_k) Box-Cox transf.		-0.159	-0.150
Marg. Rate of Subst. (d X_ref/d X_k)		0.82D-06	0.72D-06
Conditional t-statistic for BETA		(-1.71)	(-1.64)
EXPO 67 ex7			
(Quasi-dummy)	---		
BETA coefficient		0.26D+00	0.18D-03
Derivative of Y (sample value)		0.26D+00	0.28D+00
Derivative of E(Y)		0.26D+00	0.28D+00
Derivative of SIGMA(Y)		0.00D+00	0.11D-01
Derivative of GAMMA(Y)		0.00D+00	0.37D-02
Elasticity of Y (sample value)		0.217	0.232
Elasticity of E(Y)		0.217	0.231
Elasticity of SIGMA(Y)		0.000	0.113
Elasticity of GAMMA(Y)		0.00D+00	-0.12D+00
Correlation (Y,X_k) original units		-0.009	-0.009
Correlation (Y,X_k) Box-Cox transf.		-0.009	-0.005
Marg. Rate of Subst. (d X_ref/d X_k)		-0.13D-07	-0.18D-07
Conditional t-statistic for BETA		(5.38)	(6.07)
		(5.33)	(3.91)
		(33.00)	(19.25)
	EL1		
MAN AND HIS WORLD 1968 ex8			
(Quasi-dummy)	---		
BETA coefficient		0.26D+00	0.20D-03
Derivative of Y (sample value)		0.26D+00	0.31D+00
Derivative of E(Y)		0.26D+00	0.31D+00
Derivative of SIGMA(Y)		0.00D+00	0.12D-01
Derivative of GAMMA(Y)		0.00D+00	0.49D-02
Elasticity of Y (sample value)		0.057	0.068
Elasticity of E(Y)		0.057	0.068
Elasticity of SIGMA(Y)		0.000	0.033
Elasticity of GAMMA(Y)		0.00D+00	-0.36D-01
Correlation (Y,X_k) original units		-0.103	-0.103
Correlation (Y,X_k) Box-Cox transf.		-0.103	-0.099
Marg. Rate of Subst. (d X_ref/d X_k)		-0.13D-07	-0.20D-07
Conditional t-statistic for BETA		(1.42)	(1.42)
		(1.32)	(0.63)
		(5.52)	(5.38)
MAN AND HIS WORLD 1969 ex9			
(Quasi-dummy)	---		
BETA coefficient		0.42D+00	0.47D-01
Derivative of Y (sample value)		0.17D+01	0.17D+01
Derivative of E(Y)		0.17D+01	0.17D+01
Derivative of SIGMA(Y)		0.28D-02	0.68D-02
Derivative of GAMMA(Y)		-0.18D-07	-0.19D-07
Elasticity of Y (sample value)		0.050	0.050
Elasticity of E(Y)		0.050	0.050
Elasticity of SIGMA(Y)		0.004	0.011
Elasticity of GAMMA(Y)		0.15D+00	0.14D+00
Correlation (Y,X_k) original units		-0.089	-0.089
Correlation (Y,X_k) Box-Cox transf.		-0.037	-0.036
Marg. Rate of Subst. (d X_ref/d X_k)		-0.72D-07	-0.73D-07
Conditional t-statistic for BETA		(2.31)	(2.34)
MAN AND HIS WORLD 1970 ex0			
(Quasi-dummy)	---		
BETA coefficient		0.70D-01	0.74D-02
Derivative of Y (sample value)		0.28D+00	0.27D+00
Derivative of E(Y)		0.28D+00	0.27D+00
Derivative of SIGMA(Y)		0.47D-03	0.11D-02
Derivative of GAMMA(Y)		-0.31D-08	-0.29D-08
Elasticity of Y (sample value)		0.007	0.007
Elasticity of E(Y)		0.007	0.007

Elasticity of SIGMA(Y)		0.001	0.001
Elasticity of GAMMA(Y)		0.22D-01	0.19D-01
Correlation (Y,X_k) original units		-0.138	-0.138
Correlation (Y,X_k) Box-Cox transf.		-0.028	-0.027
Marg. Rate of Subst. (d X_ref/d X_k)		-0.12D-07	-0.11D-07
Conditional t-statistic for BETA		(0.26)	(0.26)
MAN AND HIS WORLD 1971	ex1		
(Quasi-dummy)	---		
BETA coefficient		0.50D-02	0.97D-03
Derivative of Y (sample value)		0.20D-01	0.35D-01
Derivative of E(Y)		0.20D-01	0.35D-01
Derivative of SIGMA(Y)		0.34D-04	0.14D-03
Derivative of GAMMA(Y)		-0.22D-09	-0.38D-09
Elasticity of Y (sample value)		0.000	0.001
Elasticity of E(Y)		0.000	0.001
Elasticity of SIGMA(Y)		0.000	0.000
Elasticity of GAMMA(Y)		0.14D-02	0.22D-02
Correlation (Y,X_k) original units		-0.124	-0.124
Correlation (Y,X_k) Box-Cox transf.		0.001	0.001
Marg. Rate of Subst. (d X_ref/d X_k)		-0.87D-09	-0.15D-08
Conditional t-statistic for BETA		(0.01)	(0.02)

ADM = ET CETERA - ADMINISTRATIVE			

MULT.FARE ZONES SCH.C.DBL.COUNTING	zsc		
(Quasi-dummy)	---		
BETA coefficient		0.30D+07	0.18D+04
Derivative of Y (sample value)		0.30D+07	0.27D+07
Derivative of E(Y)		0.30D+07	0.28D+07
Derivative of SIGMA(Y)		0.00D+00	0.11D+06
Derivative of GAMMA(Y)		0.00D+00	-0.53D-01
Elasticity of Y (sample value)		0.119	0.107
Elasticity of E(Y)		0.119	0.106
Elasticity of SIGMA(Y)		0.000	0.052
Elasticity of GAMMA(Y)		0.00D+00	-0.56D-01
Correlation (Y,X_k) original units		0.131	0.131
Correlation (Y,X_k) Box-Cox transf.		0.131	0.136
Marg. Rate of Subst. (d X_ref/d X_k)		-0.16D+00	-0.18D+00
Conditional t-statistic for BETA		(3.57)	(1.81)
MULT.FARE ZONES ADULT DBL.COUNTING	za		
(Quasi-dummy)	--		
BETA coefficient		0.22D+07	0.25D+06
Derivative of Y (sample value)		0.91D+07	0.91D+07
Derivative of E(Y)		0.91D+07	0.91D+07
Derivative of SIGMA(Y)		0.15D+05	0.36D+05
Derivative of GAMMA(Y)		-0.10D+00	-0.99D-01
Elasticity of Y (sample value)		0.037	0.037
Elasticity of E(Y)		0.037	0.037
Elasticity of SIGMA(Y)		0.003	0.008
Elasticity of GAMMA(Y)		0.11D+00	0.11D+00
Correlation (Y,X_k) original units		0.030	0.030
Correlation (Y,X_k) Box-Cox transf.		-0.012	-0.012
Marg. Rate of Subst. (d X_ref/d X_k)		-0.39D+00	-0.39D+00
Conditional t-statistic for BETA		(4.68)	(4.82)
SPECULATIVE TICKET PURCHASE	ant		
(Dummy)	===		
BETA coefficient		0.12D+07	0.60D+03
Derivative of Y (sample value)		0.12D+07	0.90D+06
Derivative of E(Y)		0.12D+07	0.90D+06
Derivative of SIGMA(Y)		0.00D+00	0.35D+05
Derivative of GAMMA(Y)		0.00D+00	-0.17D-01
Elasticity of Y (sample value)		0.383	0.289
Elasticity of E(Y)		0.383	0.287
Elasticity of SIGMA(Y)		0.000	0.140
Elasticity of GAMMA(Y)		0.00D+00	-0.15D+00
Correlation (Y,X_k) original units		0.241	0.241
Correlation (Y,X_k) Box-Cox transf.		0.241	0.198
Marg. Rate of Subst. (d X_ref/d X_k)		-0.61D-01	-0.60D-01
Conditional t-statistic for BETA		(4.14)	(0.00)
SPECULATIVE TICKET PURCHASE LAG 1M.	ant11		
(Dummy)	=====		
BETA coefficient		-0.37D+06	-0.26D+03
Derivative of Y (sample value)		-0.37D+06	-0.40D+06
Derivative of E(Y)		-0.37D+06	-0.40D+06
Derivative of SIGMA(Y)		0.00D+00	-0.15D+05
Derivative of GAMMA(Y)		0.00D+00	0.77D-02
Elasticity of Y (sample value)		-0.121	-0.128
Elasticity of E(Y)		-0.121	-0.127
Elasticity of SIGMA(Y)		0.000	-0.062
Elasticity of GAMMA(Y)		0.00D+00	0.68D-01

Correlation (Y,X_k) original units	-0.009	-0.009	-0.009	-0.009	0.031	0.031
Correlation (Y,X_k) Box-Cox transf.	-0.009	-0.003	-0.086	-0.114	0.035	0.034
Marg. Rate of Subst. (d X_ref/d X_k)	0.19D-01	0.26D-01	0.20D-01	0.20D-01	-0.11D-01	-0.15D-01
Conditional t-statistic for BETA	(-1.24)	(0.00)	(-0.67)	(-0.38)	(1.32)	(1.82)

 AGG = ET CETERA - AGGREGATION

WORKDAYS PER MONTH	wd					
BETA coefficient		0.13D+06	0.36D+03	0.37D+04	0.11D+06	0.25D+06
Derivative of Y (sample value)		0.13D+06	0.12D+06	0.99D+05	0.11D+06	0.78D+06
Derivative of E(Y)		0.13D+06	0.12D+06	0.99D+05	0.11D+06	0.78D+06
Derivative of SIGMA(Y)		0.00D+00	0.47D+04	0.18D+04	-0.30D+02	0.13D+04
Derivative of GAMMA(Y)		0.00D+00	-0.24D-02	-0.14D-02	-0.22D-03	-0.86D-02
Elasticity of Y (sample value)		0.867	0.814	0.663	0.715	0.805
Elasticity of E(Y)		0.867	0.809	0.663	0.714	0.805
Elasticity of SIGMA(Y)		0.000	0.396	0.184	-0.003	0.068
Elasticity of GAMMA(Y)		0.00D+00	-0.43D+00	-0.55D+00	0.14D+01	0.24D+01
Correlation (Y,X_k) original units		-0.120	-0.120	-0.120	-0.120	0.144
Correlation (Y,X_k) Box-Cox transf.		-0.120	-0.148	0.067	0.678	0.152
Marg. Rate of Subst. (d X_ref/d X_k)		-0.67D-02	-0.81D-02	-0.46D-02	-0.50D-02	-0.33D-01
Conditional t-statistic for BETA		(3.89)	(2.78)	(2.09)	(2.30)	(5.16)
		EL1	EL1	EL1	EL1	EL1
SATURDAYS PER MONTH	sat					
BETA coefficient		0.81D+05	0.12D+03	0.95D+03	0.54D+05	0.16D+06
Derivative of Y (sample value)		0.81D+05	0.90D+05	0.39D+05	0.51D+05	0.57D+06
Derivative of E(Y)		0.81D+05	0.90D+05	0.39D+05	0.51D+05	0.57D+06
Derivative of SIGMA(Y)		0.00D+00	0.35D+04	0.73D+03	-0.14D+02	0.94D+03
Derivative of GAMMA(Y)		0.00D+00	-0.17D-02	-0.56D-03	-0.10D-03	-0.63D-02
Elasticity of Y (sample value)		0.113	0.125	0.055	0.071	0.123
Elasticity of E(Y)		0.113	0.124	0.055	0.071	0.123
Elasticity of SIGMA(Y)		0.000	0.061	0.015	0.000	0.010
Elasticity of GAMMA(Y)		0.00D+00	-0.66D-01	-0.46D-01	0.14D+00	0.37D+00
Correlation (Y,X_k) original units		-0.083	-0.083	-0.083	-0.083	-0.036
Correlation (Y,X_k) Box-Cox transf.		-0.083	-0.084	-0.108	0.366	-0.057
Marg. Rate of Subst. (d X_ref/d X_k)		-0.42D-02	-0.59D-02	-0.18D-02	-0.24D-02	-0.24D-01
Conditional t-statistic for BETA		(1.51)	(1.47)	(0.64)	(0.88)	(3.45)
		EL1	EL1	EL1	EL1	EL1
SUNDAYS AND HOLIDAYS PER MONTH	shd					
BETA coefficient		0.36D+05	0.59D+02	0.83D+03	0.61D+05	0.13D+06
Derivative of Y (sample value)		0.36D+05	0.39D+05	0.33D+05	0.58D+05	0.45D+06
Derivative of E(Y)		0.36D+05	0.40D+05	0.33D+05	0.58D+05	0.45D+06
Derivative of SIGMA(Y)		0.00D+00	0.15D+04	0.60D+03	-0.16D+02	0.74D+03
Derivative of GAMMA(Y)		0.00D+00	-0.76D-03	-0.47D-03	-0.12D-03	-0.49D-02
Elasticity of Y (sample value)		0.061	0.067	0.056	0.098	0.117
Elasticity of E(Y)		0.061	0.067	0.056	0.098	0.117
Elasticity of SIGMA(Y)		0.000	0.033	0.015	0.000	0.010
Elasticity of GAMMA(Y)		0.00D+00	-0.35D-01	-0.46D-01	0.19D+00	0.35D+00
Correlation (Y,X_k) original units		0.027	0.027	0.027	0.027	-0.037
Correlation (Y,X_k) Box-Cox transf.		0.027	0.040	-0.162	0.256	-0.144
Marg. Rate of Subst. (d X_ref/d X_k)		-0.19D-02	-0.26D-02	-0.15D-02	-0.27D-02	-0.19D-01
Conditional t-statistic for BETA		(0.94)	(1.03)	(0.77)	(1.31)	(2.74)
		EL1	EL1	EL1	EL1	EL1

 AD = ASSOCIATED DUMMIES

ASSOCIATED DUMMY FOR RFK	dumrfk	
(Dummy)	=====	
BETA coefficient		-0.20D+05
Derivative of Y (sample value)		-0.71D+06
Derivative of E(Y)		-0.71D+06
Derivative of SIGMA(Y)		-0.28D+04
Derivative of GAMMA(Y)		0.77D-02
Elasticity of Y (sample value)		-0.035
Elasticity of E(Y)		-0.035
Elasticity of SIGMA(Y)		-0.007
Elasticity of GAMMA(Y)		-0.99D-01
Correlation (Y,X_k) original units		0.011
Correlation (Y,X_k) Box-Cox transf.		-0.032
Marg. Rate of Subst. (d X_ref/d X_k)		0.30D-01
Conditional t-statistic for BETA		(-2.66)
ASSOCIATED DUMMY FOR EX7	dumex7	
(Dummy)	=====	
BETA coefficient		0.21D+05
Derivative of Y (sample value)		0.75D+06
Derivative of E(Y)		0.75D+06
Derivative of SIGMA(Y)		0.30D+04
Derivative of GAMMA(Y)		-0.82D-02
Elasticity of Y (sample value)		0.037
Elasticity of E(Y)		0.037
Elasticity of SIGMA(Y)		0.008
Elasticity of GAMMA(Y)		0.11D+00
Correlation (Y,X_k) original units		0.366

```

Correlation (Y,X_k) Box-Cox transf.                                0.352
Marg. Rate of Subst.(d X_ref/d X_k)                             -0.32D-01
Conditional t-statistic for BETA                                ( 2.12)

REGRESSION CONSTANT      constant
BETA coefficient          -0.32D+07 -0.49D+04 -0.24D+06 -0.24D+08 -0.58D+07 -0.45D+06
Conditional t-statistic for BETA      ( -1.15) ( -0.64) ( -1.56) ( -2.36) ( -2.50) ( -1.81)

HETEROSKEDASTICITY
-----
SECONDARY SCHOOL REGISTRATION      tend
DELTA coefficient                    0.10D-01
Derivative of Y (sample value)      0.19D+05
Derivative of E(Y)                   0.19D+05
Derivative of SIGMA(Y)               0.13D+04
Derivative of GAMMA(Y)               -0.18D+01
Elasticity of Y (sample value)       0.566
Elasticity of E(Y)                   0.566
Elasticity of SIGMA(Y)               0.646
Elasticity of GAMMA(Y)               0.51D+05
Correlation (Y,Z_m) original units    0.154
Correlation (Y,Z_m) Box-Cox transf.  -0.602
Marg. Rate of Subst.(d X_ref/d Z_m)  0.19D+05
Conditional t-statistic for DELTA     ( 5.79)
                                      LAM 1

REAL RETAIL SALES INDEX      shonf
DELTA coefficient                    0.57D-01 0.13D-01
Derivative of Y (sample value)      0.42D+01 0.43D+01
Derivative of E(Y)                   0.42D+01 0.43D+01
Derivative of SIGMA(Y)               0.55D+00 0.51D+00
Derivative of GAMMA(Y)               -0.73D-01 -0.41D-01
Elasticity of Y (sample value)       0.044 0.045
Elasticity of E(Y)                   0.044 0.045
Elasticity of SIGMA(Y)               0.298 0.289
Elasticity of GAMMA(Y)               0.21D+06 0.11D+06
Correlation (Y,Z_m) original units    0.038 0.038
Correlation (Y,Z_m) Box-Cox transf.  -0.011 -0.032
Marg. Rate of Subst.(d X_ref/d Z_m)  0.42D+01 0.43D+01
Conditional t-statistic for DELTA     ( 1.12) ( 1.07)
                                      LAM 2      LAM 2

=====
PART II. Parameters
      t-statistic unconditional (=0) [=1]
Model type          L-1.6      L-1.6      L-1.6      L-1.6      L-1.6      L-1.6
Name of the variant s_lin      s_bcl      s_bclau  s_bclauh  a_bclauh  a_bc2auh
Version number of the variant      0      0      0      0      0      0
Dependent variable in the variant  xcscnfa  xcscnfa  xcscnfa  xcscnfa  xcanfa  xcanfa

=====

Box-Cox transformations (estimated)
-----
Lambda(y)          ELY          0.511      0.723      1.005      0.917      0.787
                    ( 2.67) ( 3.27) ( 4.80) ( 7.27) ( 5.77)
                    [ -2.56] [ -1.25] [ 0.02] [ -0.66] [ -1.56]

Lambda(x) - group 1 EL1          0.511      0.723      1.005      0.917      0.917
                    ( 2.67) ( 3.27) ( 4.80) ( 7.27) ( 5.26)
                    [ -2.56] [ -1.25] [ 0.02] [ -0.66] [ -0.48]

Heteroskedasticity (estimated)
-----
Lambda(z) for tend      LAM 1          1.074
                        ( 1.04)
                        [ 0.07]

Lambda(z) for shonf     LAM 2          0.190      0.305
                        ( 0.05) ( 0.07)
                        [ -0.23] [ -0.16]

Autocorrelation
-----
Order 1          RHO 1          0.138      0.255      0.009      0.015
                    ( 1.80) ( 2.93) ( 0.21) ( 0.34)

Order 3          RHO 3          -0.344      -0.186
                    ( -3.84) ( -1.80)

Order 4          RHO 4          -0.086      -0.055
                    ( -1.10) ( -0.58)

```

Order 12	RHO 12	0.382	0.471	0.922	0.918
		(4.69)	(6.60)	(21.78)	(20.61)

=====

PART III. General statistics

Model type	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6
Name of the variant	s_lin	s_bcl	s_bclau	s_bclauhg	a_bclauhg	a_bc2auhg
Version number of the variant	0	0	0	0	0	0
Dependent variable in the variant	xcscnfa	xcscnfa	xcscnfa	xcscnfa	xcanfa	xcanfa

=====

Log-likelihood	-2337.51	-2333.42	-2306.62	-2297.34	-2414.20	-2407.54
Degrees of freedom	26	27	31	33	32	35
Pearson R2	0.907	0.909	0.934	0.932	0.971	0.973
Pearson R2 adjusted for Degrees of freedom	0.890	0.891	0.919	0.916	0.964	0.966
Pseudo-(L)-R2	0.907	0.920	0.869	0.896	0.979	0.981
Pseudo-(L)-R2 adjusted for Degrees of freedom	0.890	0.904	0.840	0.871	0.974	0.976
Average probability (Y=limit observation)	0.000	0.000	0.000	0.000	0.000	0.000
Sample - Number of observations	181	181	181	181	181	181
Estimation - Number of observations	169	169	169	169	169	169
- First observation	13	13	13	13	13	13
- Last observation	181	181	181	181	181	181
Total number of fixed or estimated parameters:						
- Beta .Estimated	26	26	26	26	27	29
.Constant	1	1	1	1	1	1
- Lambda(y)						
.Fixed	0	0	0	0	0	0
.Estimated .Constrained	0	1	1	1	1	0
.Distinct	0	0	0	0	0	1
- Lambda(x)						
.Fixed	0	0	0	0	0	0
.Estimated	0	1	1	1	1	1
- Heteroskedasticity						
Delta						
.Fixed	0	0	0	0	0	0
.Estimated	0	0	0	1	1	1
Lambda(z)						
.Fixed	0	0	0	0	0	0
.Estimated	0	0	0	1	1	1
- Autocorrelation						
Rho .Estimated	0	0	4	4	2	2
- Total						
.Fixed	0	0	0	0	0	0
.Estimated	27	28	32	34	33	36
Mean of observed Y	0.31D+07	0.31D+07	0.31D+07	0.31D+07	0.20D+08	0.20D+08
Standard error of observed Y	0.81D+06	0.81D+06	0.81D+06	0.81D+06	0.23D+07	0.23D+07
Skewness of observed Y	-0.61D+00	-0.61D+00	-0.61D+00	-0.61D+00	0.54D+00	0.54D+00
Mean of Y, estimated at the mean	0.31D+07	0.31D+07	0.31D+07	0.31D+07	0.20D+08	0.20D+08
Standard error of Y, estimated at the mean	0.00D+00	0.25D+06	0.21D+06	0.19D+06	0.39D+06	0.38D+06
Skewness of Y, estimated at the mean	0.00D+00	0.11D+00	0.54D-01	-0.32D-02	-0.74D-01	-0.77D-01
Mean of estimated E(Y)	0.31D+07	0.31D+07	0.31D+07	0.31D+07	0.20D+08	0.20D+08
Standard error of estimated E(Y)	0.77D+06	0.77D+06	0.76D+06	0.77D+06	0.23D+07	0.23D+07
Skewness of estimated E(Y)	-0.82D+00	-0.74D+00	-0.62D+00	-0.67D+00	0.58D+00	0.59D+00
M.R.S. between Measures M1, M2 and M3						
M1 / M2	n.a.	0.26D+02	0.54D+02	-0.36D+04	0.61D+03	0.25D+03
M2 / M1	n.a.	0.38D-01	0.18D-01	-0.28D-03	0.16D-02	0.40D-02
M1 / M3	n.a.	-0.52D+08	-0.70D+08	-0.49D+09	-0.91D+08	-0.92D+08
M3 / M1	n.a.	-0.19D-07	-0.14D-07	-0.20D-08	-0.11D-07	-0.11D-07
M2 / M3	n.a.	-0.20D+07	-0.13D+07	0.14D+06	-0.15D+06	-0.37D+06
M3 / M2	n.a.	-0.50D-06	-0.77D-06	0.73D-05	-0.67D-05	-0.27D-05
Elasticity of substitution between M1, M2 and M3						
M1 / M2	n.a.	0.20D+01	0.36D+01	-0.22D+03	0.12D+02	0.47D+01
M2 / M1	n.a.	0.49D+00	0.28D+00	-0.45D-02	0.85D-01	0.21D+00
M1 / M3	n.a.	-0.19D+01	-0.12D+01	0.51D+00	0.33D+00	0.35D+00
M3 / M1	n.a.	-0.53D+00	-0.83D+00	0.20D+01	0.30D+01	0.28D+01
M2 / M3	n.a.	-0.92D+00	-0.33D+00	-0.23D-02	0.28D-01	0.75D-01
M3 / M2	n.a.	-0.11D+01	-0.30D+01	-0.43D+03	0.35D+02	0.13D+02

=====

2.7 Third Example of Input File

The third example of a Tablex input file, *Tablex.in*, is stored in *d:\Level1new\L1Tablex\Tablex Tests\Third Example* where *d:* is the drive where the program Level 1.6 is installed. To produce the associated Tablex, double-click on the batch file *RunTablex.bat* which is stored in the same directory.

This Tablex input file corresponds to the nine variants estimated in Section 1.13.

```
$card nbloc=15,neq=9,nestim=1,ndt=0,nvs=1,nlist=0,
  nstat=1,2,3,4,5,6,7,8,9,10,11,12,13$
PGRPKM
IPDRQO
PGRPKM
PGRPKM
PGRPKM
PGRPKM
PGRPKM
PGRPKM
PGRPKM
L1listdef.txt
D:\Level1new\Level1Tests\Third Example\ga_bclau51.tab
D:\Level1new\Level1Tests\Third Example\di_bclau11.tab
D:\Level1new\Level1Tests\Third Example\ma_bclau30.tab
D:\Level1new\Level1Tests\Third Example\nm_bclau30.tab
D:\Level1new\Level1Tests\Third Example\mo_bclau30.tab
D:\Level1new\Level1Tests\Third Example\co_bclau31.tab
D:\Level1new\Level1Tests\Third Example\ac_bclau29.tab
D:\Level1new\Level1Tests\Third Example\mb_bc2au45.tab
D:\Level1new\Level1Tests\Third Example\mt_bclau30.tab
D:\Level1new\Level1Tests\Third Example\Drag1.in
(a8/(5d15.6))
```

2.8 Third Example of Output File

This is the Tablex output file *Tablex.txt* corresponding to the nine variants estimated in Section 1.13.

```
$CARD
NBLOC = 15,
NEQ = 9,
NESTIM = 1,
NDT = 0,
NVS = 1,
NLIST = 0,
NSTAT = 1, 2, 3, 4, 5, 6, 7, 8, 9,
/
```

PART I. Presented statistics										
Model type	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6
Name of the variant	ga_bclau	di_bclau	ma_bclau	nm_bclau	mo_bclau	co_bclau	ac_bclau	mb_bc2au	mt_bclau	
Version number of the variant	51	11	30	30	30	31	29	45	30	
Dependent variable in the variant	GAR1	DICR1	MA	NM	MO	COR	ACC	MBC	MTC	
Reference variable X_ref for M.R.S.	PGRPKM	IPDRQO	PGRPKM	PGRPKM	PGRPKM	PGRPKM	PGRPKM	PGRPKM	PGRPKM	

D	= DEPENDENT OR DEMAND									

GR.GAS.SALES F.ROADS WTD=GAR1*KM/LI	KMPARR1									
BETA coefficient			0.80D-01	0.11D-01	0.65D-02	0.22D-01	0.64D-01	0.77D-01	0.15D-06	
Derivative of Y (sample value)			0.31D-05	0.45D-06	0.25D-07	0.48D-06	0.46D-05	0.35D-10	0.15D-10	
Derivative of E(Y)			0.30D-05	0.44D-06	0.23D-07	0.47D-06	0.45D-05	0.36D-10	0.15D-10	
Derivative of SIGMA(Y)			0.19D-06	0.24D-07	0.22D-08	0.26D-07	0.24D-06	0.53D-11	0.75D-12	
Derivative of GAMMA(Y)			-0.12D-10	-0.84D-11	-0.18D-10	-0.73D-11	-0.15D-10	0.45D-10	-0.29D-10	
Elasticity of Y (sample value)			0.874	0.487	0.601	0.495	1.018	0.066	0.765	
Elasticity of E(Y)			0.877	0.491	0.613	0.497	1.021	0.067	0.771	
Elasticity of SIGMA(Y)			0.710	0.358	0.449	0.384	0.792	0.316	0.290	
Elasticity of GAMMA(Y)			-0.17D+00	-0.14D+00	-0.16D+00	-0.12D+00	-0.24D+00	0.27D+00	-0.49D+00	
Correlation (Y,X_k) original units			0.683	0.786	0.489	0.780	0.788	-0.105	-0.338	
Correlation (Y,X_k) Box-Cox transf.			0.831	0.865	0.645	0.787	0.881	-0.090	-0.590	
Marg. Rate of Subst. (d X_ref/d X_k)			0.12D-09	-0.77D-11	-0.46D-10	-0.86D-11	0.26D-09	0.28D-09	0.17D-10	
Conditional t-statistic for BETA			(3.77)	(1.94)	(1.62)	(2.12)	(3.98)	(0.77)	(1.74)	
			EL1	EL1	EL1	EL1	EL1	EL1	EL1	

GR.DIESEL SALES REC.F.ROADS (M.R.1)	DICR1									
BETA coefficient			0.10D-01	0.20D-02	0.12D-02	0.36D-02	0.64D-02	-0.14D-01	-0.30D-07	
Derivative of Y (sample value)			0.82D-05	0.12D-05	0.74D-07	0.15D-05	0.84D-05	-0.35D-09	-0.12D-10	
Derivative of E(Y)			0.80D-05	0.12D-05	0.70D-07	0.15D-05	0.83D-05	-0.36D-09	-0.12D-10	
Derivative of SIGMA(Y)			0.50D-06	0.64D-07	0.68D-08	0.81D-07	0.45D-06	-0.52D-10	-0.63D-12	

Derivative of GAMMA(Y)	-0.32D-10	-0.23D-10	-0.55D-10	-0.23D-10	-0.27D-10	-0.45D-09	0.24D-10
Elasticity of Y (sample value)	0.054	0.031	0.043	0.036	0.044	-0.015	-0.015
Elasticity of E(Y)	0.055	0.031	0.043	0.036	0.044	-0.016	-0.015
Elasticity of SIGMA(Y)	0.044	0.023	0.032	0.028	0.034	-0.073	-0.006
Elasticity of GAMMA(Y)	-0.11D-01	-0.88D-02	-0.12D-01	-0.84D-02	-0.10D-01	-0.62D-01	0.95D-02
Correlation (Y,X_k) original units	0.664	0.648	0.252	0.637	0.736	-0.246	-0.510
Correlation (Y,X_k) Box-Cox transf.	0.806	0.856	0.564	0.787	0.857	-0.216	-0.654
Marg. Rate of Subst. (d X_ref/d X_k)	0.31D-09	-0.21D-10	-0.14D-09	-0.26D-10	0.47D-09	-0.27D-08	-0.14D-10
Conditional t-statistic for BETA	(1.75)	(1.01)	(0.64)	(1.17)	(1.66)	(-1.29)	(-0.18)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1

P	= PRICES						

REAL PRICE OF REGULAR GAS. PER KM	PGRPKM						
BETA coefficient	-0.78D+06	0.58D+00	-0.98D+01	-0.83D+00	-0.53D+01	0.50D+00	0.34D-03
Derivative of Y (sample value)	-0.33D+10	0.27D+05	-0.59D+05	-0.53D+03	-0.56D+05	0.18D+05	0.13D+00
Derivative of E(Y)	-0.33D+10	0.26D+05	-0.57D+05	-0.50D+03	-0.55D+05	0.18D+05	0.13D+00
Derivative of SIGMA(Y)	-0.40D+08	0.16D+04	-0.31D+04	-0.48D+02	-0.31D+04	0.95D+03	0.19D-01
Derivative of GAMMA(Y)	0.33D+00	-0.11D+00	0.11D+01	0.39D+00	0.86D+00	-0.57D-01	0.16D+00
Elasticity of Y (sample value)	-0.106	0.046	-0.384	-0.079	-0.353	0.024	0.001
Elasticity of E(Y)	-0.107	0.047	-0.387	-0.081	-0.355	0.024	0.001
Elasticity of SIGMA(Y)	-0.037	0.038	-0.282	-0.059	-0.274	0.019	0.007
Elasticity of GAMMA(Y)	0.22D+00	-0.91D-02	0.11D+00	0.22D-01	0.83D-01	-0.57D-02	0.59D-02
Correlation (Y,X_k) original units	0.704	0.491	0.515	0.115	0.502	0.551	-0.272
Correlation (Y,X_k) Box-Cox transf.	0.734	0.578	0.608	0.241	0.541	0.615	-0.324
Marg. Rate of Subst. (d X_ref/d X_k)	0.10D+01	0.10D+01	0.10D+01	0.10D+01	0.10D+01	0.10D+01	0.10D+01
Conditional t-statistic for BETA	(-1.21)	(0.28)	(-2.45)	(-0.33)	(-2.17)	(0.18)	(0.02)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1

IND. REAL PRICE TX+REB. DIESEL. QUEBEC	IPDRQO						
BETA coefficient	-0.41D+05	-0.21D+09	-0.21D+09	-0.11D+08	0.31D+00	-0.317	-0.318
Derivative of Y (sample value)	-0.21D+09	-0.21D+09	-0.11D+08	0.31D+00	-0.317	-0.318	-0.134
Derivative of E(Y)	-0.21D+09	-0.11D+08	0.31D+00	-0.317	-0.318	-0.134	0.19D+00
Derivative of SIGMA(Y)	-0.11D+08	0.31D+00	-0.317	-0.318	-0.134	0.19D+00	0.590
Derivative of GAMMA(Y)	0.31D+00	-0.317	-0.318	-0.134	0.19D+00	0.590	0.323
Elasticity of Y (sample value)	-0.317	-0.318	-0.134	0.19D+00	0.590	0.323	0.10D+01
Elasticity of E(Y)	-0.318	-0.134	0.19D+00	0.590	0.323	0.10D+01	(-1.13)
Elasticity of SIGMA(Y)	-0.134	0.19D+00	0.590	0.323	0.10D+01	(-1.13)	EL1
Elasticity of GAMMA(Y)	0.19D+00	0.590	0.323	0.10D+01	(-1.13)	EL1	
Correlation (Y,X_k) original units	0.590	0.323	0.10D+01	(-1.13)	EL1		
Correlation (Y,X_k) Box-Cox transf.	0.323	0.10D+01	(-1.13)	EL1			
Marg. Rate of Subst. (d X_ref/d X_k)	0.10D+01	(-1.13)	EL1				
Conditional t-statistic for BETA	(-1.13)	EL1					

REAL PRICE OF TAXED DIESEL, QUEBEC	PDRQ						
BETA coefficient	-0.74D+01	-0.40D+00	-0.11D+02	-0.10D+01	-0.87D+01	-0.17D-01	-0.91D+00
Derivative of Y (sample value)	-0.82D+05	-0.67D+03	-0.20D+04	-0.28D+04	-0.79D+05	-0.10D+01	-0.72D+00
Derivative of E(Y)	-0.81D+05	-0.65D+03	-0.19D+04	-0.27D+04	-0.78D+05	-0.10D+01	-0.71D+00
Derivative of SIGMA(Y)	-0.50D+04	-0.35D+02	-0.18D+03	-0.15D+03	-0.42D+04	-0.15D+00	-0.37D-01
Derivative of GAMMA(Y)	0.33D+00	0.12D-01	0.15D+01	0.42D-01	0.25D+00	-0.13D+01	0.14D+01
Elasticity of Y (sample value)	-0.826	-0.025	-1.732	-0.101	-0.624	-0.067	-1.331
Elasticity of E(Y)	-0.829	-0.025	-1.765	-0.101	-0.626	-0.069	-1.342
Elasticity of SIGMA(Y)	-0.671	-0.019	-1.294	-0.078	-0.485	-0.322	-0.504
Elasticity of GAMMA(Y)	0.16D+00	0.72D-02	0.47D+00	0.24D-01	0.15D+00	-0.27D+00	0.85D+00
Correlation (Y,X_k) original units	0.363	0.396	0.008	0.383	0.411	-0.180	-0.500
Correlation (Y,X_k) Box-Cox transf.	0.466	0.482	0.115	0.419	0.491	-0.205	-0.724
Marg. Rate of Subst. (d X_ref/d X_k)	-0.31D+01	0.11D-01	0.38D+01	0.49D-01	-0.45D+01	-0.80D+01	-0.83D+00
Conditional t-statistic for BETA	(-3.19)	(-0.12)	(-4.83)	(-0.43)	(-2.90)	(-0.62)	(-3.54)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1

REAL PRICE VEH. MAINT. EXCL. GAS. PUR.	ENTRNMDC						
BETA coefficient	0.65D+04	0.81D+03	-0.16D+01	-0.20D+01	-0.12D+01	-0.16D+01	-0.20D+01
Derivative of Y (sample value)	0.16D+07	0.27D+06	-0.92D+02	-0.28D+02	-0.17D+01	-0.29D+02	-0.12D+03
Derivative of E(Y)	0.16D+07	0.27D+06	-0.90D+02	-0.28D+02	-0.16D+01	-0.28D+02	-0.13D+02
Derivative of SIGMA(Y)	0.19D+05	0.14D+05	-0.57D+01	-0.15D+01	-0.16D+00	-0.16D+01	-0.19D+03
Derivative of GAMMA(Y)	-0.16D-03	-0.39D-03	0.37D-03	0.52D-03	0.13D-02	0.43D-03	0.37D-03
Elasticity of Y (sample value)	0.200	0.273	-0.630	-0.727	-1.001	-0.706	-0.618
Elasticity of E(Y)	0.202	0.275	-0.632	-0.733	-1.020	-0.708	-0.620
Elasticity of SIGMA(Y)	0.070	0.116	-0.512	-0.534	-0.748	-0.548	-0.481
Elasticity of GAMMA(Y)	-0.41D+00	-0.16D+00	0.12D+00	0.21D+00	0.27D+00	0.17D+00	0.15D+00
Correlation (Y,X_k) original units	0.879	0.860	0.627	0.598	0.313	0.591	0.692
Correlation (Y,X_k) Box-Cox transf.	0.905	0.457	0.758	0.735	0.549	0.639	0.798
Marg. Rate of Subst. (d X_ref/d X_k)	-0.48D-03	-0.13D-02	-0.35D-02	0.48D-03	0.32D-02	0.51D-03	-0.65D-02
Conditional t-statistic for BETA	(1.89)	(0.68)	(-3.03)	(-3.97)	(-3.86)	(-3.77)	(-3.91)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1

REAL ADULT TRANSIT FARE, MONTREAL	FAD822						
BETA coefficient	0.21D+06	0.38D+09	0.38D+09	0.47D+07	-0.38D-01	0.133	0.134
Derivative of Y (sample value)	0.38D+09	0.38D+09	0.47D+07	-0.38D-01	0.133	0.134	0.046
Derivative of E(Y)	0.38D+09	0.47D+07	-0.38D-01	0.133	0.134	0.046	-0.27D+00
Derivative of SIGMA(Y)	0.47D+07	-0.38D-01	0.133	0.134	0.046	-0.27D+00	0.436
Derivative of GAMMA(Y)	-0.38D-01	0.133	0.134	0.046	-0.27D+00	0.436	0.496
Elasticity of Y (sample value)	0.133	0.134	0.046	-0.27D+00	0.436	0.496	-0.12D+00
Elasticity of E(Y)	0.134	0.046	-0.27D+00	0.436	0.496	-0.12D+00	(2.42)
Elasticity of SIGMA(Y)	0.046	-0.27D+00	0.436	0.496	-0.12D+00	(2.42)	EL1
Elasticity of GAMMA(Y)	-0.27D+00	0.436	0.496	-0.12D+00	(2.42)	EL1	
Correlation (Y,X_k) original units	0.436	0.496	-0.12D+00	(2.42)	EL1		
Correlation (Y,X_k) Box-Cox transf.	0.496	-0.12D+00	(2.42)	EL1			
Marg. Rate of Subst. (d X_ref/d X_k)	-0.12D+00	(2.42)	EL1				
Conditional t-statistic for BETA	(2.42)	EL1					

CPI EXC. AUTO+MTL TRANSIT COMPONENTS	PCBNETT						
BETA coefficient	0.64D+03	0.12D+06	0.12D+06	0.15D+04	-0.12D-04	0.030	0.030
Derivative of Y (sample value)	0.12D+06	0.12D+06	0.15D+04	-0.12D-04	0.030	0.030	0.010
Derivative of E(Y)	0.12D+06	0.15D+04	-0.12D-04	0.030	0.030	0.010	-0.61D-01
Derivative of SIGMA(Y)	0.15D+04	-0.12D-04	0.030	0.030	0.010	-0.61D-01	0.754
Derivative of GAMMA(Y)	-0.12D-04	0.030	0.030	0.010	-0.61D-01	0.754	0.788
Elasticity of Y (sample value)	0.030	-0.61D-01	0.754	0.788	-0.38D-04	(0.25)	0.963
Elasticity of E(Y)	0.030	-0.61D-01	0.754	0.788	(0.25)	0.963	0.965
Elasticity of SIGMA(Y)	0.010	-0.61D-01	0.754	0.788	0.963	0.965	
Elasticity of GAMMA(Y)	-0.61D-01	0.754	0.788	0.963	0.965		
Correlation (Y,X_k) original units	0.754	0.788	0.963	0.965			
Correlation (Y,X_k) Box-Cox transf.	0.788	0.963	0.965				
Marg. Rate of Subst. (d X_ref/d X_k)	-0.38D-04	(0.25)					
Conditional t-statistic for BETA	(0.25)						

M-Q	= MOTOR VEHICLE - QUANTITY						

CARS PER PERSON	AUPPOP						
BETA coefficient	0.33D+06	0.52D+09	0.52D+09	0.64D+07	-0.52D-01	0.288	0.291
Derivative of Y (sample value)	0.52D+09	0.52D+09	0.64D+07	-0.52D-01	0.288	0.291	0.101
Derivative of E(Y)	0.52D+09	0.64D+07	-0.52D-01	0.288	0.291	0.101	-0.59D+00
Derivative of SIGMA(Y)	0.64D+07	-0.52D-01	0.288	0.291	0.101	-0.59D+00	0.963
Derivative of GAMMA(Y)	-0.52D-01	0.288	0.291	0.101	-0.59D+00	0.963	0.965
Elasticity of Y (sample value)	0.288	0.291	0.101	-0.59D+00	0.963	0.965	
Elasticity of E(Y)	0.291	0.101	-0.59D+00	0.963	0.965		
Elasticity of SIGMA(Y)	0.101	-0.59D+00	0.963	0.965			
Elasticity of GAMMA(Y)	-0.59D+00	0.963	0.965				
Correlation (Y,X_k) original units	0.963	0.965					
Correlation (Y,X_k) Box-Cox transf.	0.965						

Marg. Rate of Subst. (d X_ref/d X_k)	-0.16D+00
Conditional t-statistic for BETA	(1.42)
	EL1
COMM.VEH.USING GASOLINE PER ADULT	VUTGAPAD
BETA coefficient	0.41D+06
Derivative of Y (sample value)	0.11D+10
Derivative of E(Y)	0.11D+10
Derivative of SIGMA(Y)	0.14D+08
Derivative of GAMMA(Y)	-0.11D+00
Elasticity of Y (sample value)	0.127
Elasticity of E(Y)	0.128
Elasticity of SIGMA(Y)	0.044
Elasticity of GAMMA(Y)	-0.26D+00
Correlation (Y,X_k) original units	0.685
Correlation (Y,X_k) Box-Cox transf.	0.700
Marg. Rate of Subst. (d X_ref/d X_k)	-0.34D+00
Conditional t-statistic for BETA	(1.26)
	EL1
COMM.VEH.USING DIESEL PER ADULT	VUTDIPAD
BETA coefficient	0.18D+06
Derivative of Y (sample value)	0.26D+10
Derivative of E(Y)	0.26D+10
Derivative of SIGMA(Y)	0.13D+09
Derivative of GAMMA(Y)	-0.39D+01
Elasticity of Y (sample value)	0.316
Elasticity of E(Y)	0.317
Elasticity of SIGMA(Y)	0.134
Elasticity of GAMMA(Y)	-0.19D+00
Correlation (Y,X_k) original units	0.950
Correlation (Y,X_k) Box-Cox transf.	0.645
Marg. Rate of Subst. (d X_ref/d X_k)	-0.12D+02
Conditional t-statistic for BETA	(0.85)
	EL1
MOTORCYCLES + MOTORBIKES PER ADULT	MOCYPAD
BETA coefficient	0.67D+04
Derivative of Y (sample value)	0.68D+07
Derivative of E(Y)	0.68D+07
Derivative of SIGMA(Y)	0.83D+05
Derivative of GAMMA(Y)	-0.68D-03
Elasticity of Y (sample value)	0.000
Elasticity of E(Y)	0.000
Elasticity of SIGMA(Y)	0.000
Elasticity of GAMMA(Y)	-0.36D-03
Correlation (Y,X_k) original units	0.631
Correlation (Y,X_k) Box-Cox transf.	0.595
Marg. Rate of Subst. (d X_ref/d X_k)	-0.21D-02
Conditional t-statistic for BETA	(0.04)

M-C = MOTOR VEHICLE - CHARACTERISTICS

PROPORTION OF SMALL CARS	PPAS																		
BETA coefficient	-0.83D+06	0.88D+01	0.65D+01	0.83D+01	0.52D+01	0.10D+02	0.82D-01	0.40D+00											
Derivative of Y (sample value)	-0.16D+10	0.62D+05	0.72D+04	0.98D+03	0.92D+04	0.62D+05	0.26D+01	0.26D+00											
Derivative of E(Y)	-0.16D+10	0.61D+05	0.71D+04	0.93D+03	0.91D+04	0.61D+05	0.27D+01	0.26D+00											
Derivative of SIGMA(Y)	-0.19D+08	0.38D+04	0.38D+03	0.90D+02	0.50D+03	0.33D+04	0.40D+00	0.13D-01											
Derivative of GAMMA(Y)	0.16D+00	-0.25D+00	-0.13D+00	-0.73D+00	-0.14D+00	-0.20D+00	0.34D+01	-0.51D+00											
Elasticity of Y (sample value)	-0.512	1.089	0.476	1.475	0.583	0.847	0.305	0.828											
Elasticity of E(Y)	-0.516	1.094	0.479	1.503	0.585	0.850	0.312	0.835											
Elasticity of SIGMA(Y)	-0.179	0.885	0.349	1.102	0.453	0.659	1.464	0.314											
Elasticity of GAMMA(Y)	0.10D+01	-0.21D+00	-0.13D+00	-0.40D+00	-0.14D+00	-0.20D+00	0.12D+01	-0.53D+00											
Correlation (Y,X_k) original units	0.831	0.614	0.658	0.271	0.647	0.695	-0.229	-0.512											
Correlation (Y,X_k) Box-Cox transf.	0.872	0.772	0.808	0.508	0.736	0.819	-0.217	-0.699											
Marg. Rate of Subst. (d X_ref/d X_k)	0.48D+00	0.23D+01	-0.12D+00	-0.19D+01	-0.16D+00	0.35D+01	0.21D+02	0.30D+00											
Conditional t-statistic for BETA	(-2.66)	(2.96)	(1.44)	(2.96)	(1.63)	(2.89)	(1.91)	(1.45)											
	EL1	EL1	EL1	EL1	EL1	EL1	EL1	EL1											
PROP.OF CARS W.WAIST OR SHOULD.BELT	DISCREIN																		
BETA coefficient	0.16D+06	0.19D+05	0.43D+01	0.40D+01	0.33D+00	0.26D+01	0.49D+01	0.19D-02	-0.75D-01										
Derivative of Y (sample value)	0.16D+09	0.36D+08	0.69D+04	0.12D+04	0.10D+02	0.11D+04	0.71D+04	0.86D-02	-0.25D-01										
Derivative of E(Y)	0.16D+09	0.35D+08	0.68D+04	0.12D+04	0.97D+01	0.11D+04	0.70D+04	0.88D-02	-0.24D-01										
Derivative of SIGMA(Y)	0.19D+07	0.18D+07	0.42D+03	0.62D+02	0.94D+00	0.61D+02	0.38D+03	0.13D-02	-0.13D-02										
Derivative of GAMMA(Y)	-0.16D-01	-0.52D-01	-0.27D-01	-0.22D-01	-0.76D-02	-0.17D-01	-0.23D-01	0.11D-01	0.49D-01										
Elasticity of Y (sample value)	0.146	0.265	0.342	0.224	0.044	0.203	0.275	0.003	-0.225										
Elasticity of E(Y)	0.147	0.266	0.344	0.225	0.045	0.203	0.276	0.003	-0.227										
Elasticity of SIGMA(Y)	0.051	0.112	0.278	0.164	0.033	0.157	0.214	0.014	-0.085										
Elasticity of GAMMA(Y)	-0.30D+00	-0.16D+00	-0.67D-01	-0.63D-01	-0.12D-01	-0.48D-01	-0.65D-01	0.11D-01	0.14D+00										
Correlation (Y,X_k) original units	0.940	0.951	0.625	0.665	0.300	0.655	0.706	-0.251	-0.474										
Correlation (Y,X_k) Box-Cox transf.	0.933	0.955	0.703	0.770	0.450	0.721	0.751	-0.275	-0.648										
Marg. Rate of Subst. (d X_ref/d X_k)	-0.48D-01	-0.17D+00	0.26D+00	-0.20D-01	-0.19D-01	-0.20D-01	0.40D+00	0.68D-01	-0.28D-01										
Conditional t-statistic for BETA	(2.28)	(1.46)	(4.21)	(3.44)	(0.48)	(2.91)	(3.79)	(0.11)	(-2.61)										

N-L = LAWS REGULATION POLICE

SPEED LIM.+COMP.BELT (01-15/08/76)	LVCEI																		
(Dummy)	=====																		
BETA coefficient	-0.23D+04	0.73D+04	0.31D+00	-0.47D+00	-0.16D+00	-0.36D+00	0.20D+00	0.24D-02	0.43D-02										
Derivative of Y (sample value)	-0.24D+07	0.14D+08	0.50D+03	-0.14D+03	-0.49D+01	-0.16D+03	0.29D+03	0.11D-01	0.14D-02										
Derivative of E(Y)	-0.23D+07	0.14D+08	0.49D+03	-0.14D+03	-0.46D+01	-0.15D+03	0.29D+03	0.11D-01	0.14D-02										
Derivative of SIGMA(Y)	-0.29D+05	0.71D+06	0.31D+02	-0.72D+01	-0.45D+00	-0.86D+01	0.16D+02	0.17D-02	0.72D-04										
Derivative of GAMMA(Y)	0.23D-03	-0.20D-01	-0.20D-02	0.25D-02	0.37D-02	0.24D-02	-0.93D-03	0.14D-01	-0.28D-02										
Elasticity of Y (sample value)	-0.005	0.223	0.054	-0.056	-0.046	-0.061	0.025	0.008	0.028										
Elasticity of E(Y)	-0.005	0.225	0.054	-0.057	-0.047	-0.062	0.025	0.008	0.028										
Elasticity of SIGMA(Y)	-0.002	0.095	0.044	-0.041	-0.034	-0.048	0.019	0.038	0.011										
Elasticity of GAMMA(Y)	0.96D-02	-0.13D+00	-0.11D-01	0.16D-01	0.12D-01	0.15D-01	-0.58D-02	0.32D-01	-0.18D-01										
Correlation (Y,X_k) original units	0.655	0.800	0.533	0.474	0.037	0.459	0.578	-0.238	-0.547										
Correlation (Y,X_k) Box-Cox transf.	0.648	0.469	0.551	0.515	0.108	0.450	0.571	-0.275	-0.768										
Marg. Rate of Subst. (d X_ref/d X_k)	0.72D-03	-0.65D-01	0.19D-01	0.24D-02	0.93D-02	0.28D-02	0.16D-01	0.87D-01	0.16D-02										
Conditional t-statistic for BETA	(-0.19)	(2.16)	(1.48)	(-1.65)	(-0.96)	(-1.60)	(0.85)	(0.46)	(0.44)										
BREATHALYSER LAW (0.8) (01/12/69)	P08PC																		
(Quasi-dummy)	-----																		
BETA coefficient	0.23D+04	0.15D+04	0.79D-01	-0.19D+00	-0.38D-01	-0.12D+00	0.24D+00	-0.33D-02	0.46D-02										
Derivative of Y (sample value)	0.23D+07	0.28D+07	0.13D+03	-0.55D+02	-0.12D+01	-0.51D+02	0.35D+03	-0.15D-01	0.15D-02										
Derivative of E(Y)	0.23D+07	0.28D+07	0.13D+03	-0.54D+02	-0.11D+01	-0.50D+02	0.35D+03	-0.16D-01	0.15D-02										
Derivative of SIGMA(Y)	0.28D+05	0.14D+06	0.78D+01	-0.29D+01	-0.11D+00	-0.28D+01	0.19D+02	-0.23D-02	0.77D-04										
Derivative of GAMMA(Y)	-0.23D-03	-0.41D-02	-0.51D-03	0.10D-02	0.86D-03	0.77D-03	-0.11D-02	-0.20D-01	-0.30D-02										
Elasticity of Y (sample value)	0.005	0.045	0.014	-0.022	-0.011	-0.020	0.030	-0.011	0.030										
Elasticity of E(Y)	0.005	0.045	0.014	-0.023	-0.011	-0.020	0.030	-0.011	0.030										
Elasticity of SIGMA(Y)	0.002	0.019	0.011	-0.016	-0.008	-0.015	0.023	-0.052	0.011										
Elasticity of GAMMA(Y)	-0.95D-02	-0.26D-01	-0.27D-02	0.64D-02	0.30D-02	0.47D-02	-0.70D-02	-0.44D-01	-0.19D-01										
Correlation (Y,X_k) original units	0.871	0.834	0.555	0.603	0.324	0.597	0.630	-0.260	-0.366										
Correlation (Y,X_k) Box-Cox transf.	0.875	0.446	0.625	0.706	0.490	0.644	0.677	-0.290	-0.495										
Marg. Rate of Subst. (d X_ref/d X_k)	-0.71D-03	-0.13D-01	0.48D-02	0.93D-03	0.22D-02	0.90D-03	0.20D-01	-0.12D+00	0.17D-02										
Conditional t-statistic for BETA	(0.17)	(0.36)	(0.29)	(-0.44)	(-0.16)	(-0.38)	(0.74)	(-0.61)	(0.43)										
DEMERIT POINT SYSTEM (01/03/73)	PTDEM																		
(Dummy)	=====																		

BETA coefficient		-0.32D+04	0.51D+04	-0.14D+01	-0.77D+00	-0.32D+00	-0.55D+00	-0.18D+01	-0.47D-02	0.11D-01	
Derivative of Y (sample value)		-0.32D+07	0.98D+07	-0.23D+04	-0.23D+03	-0.10D+02	-0.24D+03	-0.26D+04	-0.22D-01	0.36D-02	
Derivative of E(Y)		-0.32D+07	0.97D+07	-0.23D+04	-0.22D+03	-0.94D+01	-0.24D+03	-0.25D+04	-0.22D-01	0.36D-02	
Derivative of SIGMA(Y)		-0.39D+05	0.50D+06	-0.14D+03	-0.12D+02	-0.92D+00	-0.13D+02	-0.14D+03	-0.33D-02	0.19D-03	
Derivative of GAMMA(Y)		0.32D-03	-0.14D-01	0.92D-02	0.42D-02	0.74D-02	0.36D-02	0.82D-02	-0.28D-01	-0.72D-02	
Elasticity of Y (sample value)		-0.006	0.159	-0.251	-0.093	-0.094	-0.094	-0.219	-0.016	0.072	
Elasticity of E(Y)		-0.007	0.159	-0.252	-0.094	-0.095	-0.094	-0.219	-0.016	0.073	
Elasticity of SIGMA(Y)		-0.002	0.067	-0.204	-0.068	-0.070	-0.073	-0.170	-0.074	0.027	
Elasticity of GAMMA(Y)		0.13D-01	-0.93D-01	0.49D-01	0.26D-01	0.26D-01	0.22D-01	0.51D-01	-0.63D-01	-0.46D-01	
Correlation (Y,X_k) original units		0.842	0.891	0.524	0.578	0.221	0.568	0.596	-0.245	-0.450	
Correlation (Y,X_k) Box-Cox transf.		0.832	0.533	0.586	0.635	0.325	0.573	0.627	-0.267	-0.627	
Marg. Rate of Subst. (d X_ref/d X_k)		0.98D-03	-0.46D-01	-0.87D-01	0.39D-02	0.19D-01	0.42D-02	-0.14D+00	-0.17D+00	0.42D-02	
Conditional t-statistic for BETA		(-0.20)	(1.56)	(-5.70)	(-1.83)	(-1.29)	(-1.70)	(-6.16)	(-0.66)	(0.98)	
NEW HIGHWAY CODE (01/04/82) NCR0UT04											
(Dummy) =====											
BETA coefficient		-0.27D+05	-0.53D+04	-0.73D+00	-0.16D+01	-0.20D+00	-0.11D+01	-0.86D+00	-0.83D-02	0.16D-01	
Derivative of Y (sample value)		-0.28D+08	-0.10D+08	-0.12D+04	-0.46D+03	-0.62D+01	-0.47D+03	-0.12D+04	-0.38D-01	0.52D-02	
Derivative of E(Y)		-0.28D+08	-0.99D+07	-0.12D+04	-0.45D+03	-0.59D+01	-0.46D+03	-0.12D+04	-0.39D-01	0.52D-02	
Derivative of SIGMA(Y)		-0.34D+06	-0.51D+06	-0.73D+02	-0.24D+02	-0.57D+00	-0.26D+02	-0.66D+02	-0.58D-02	0.27D-03	
Derivative of GAMMA(Y)		0.28D-02	0.15D-01	0.47D-02	0.85D-02	0.46D-02	0.71D-02	0.39D-02	-0.50D-01	-0.10D-01	
Elasticity of Y (sample value)		-0.056	-0.162	-0.129	-0.188	-0.058	-0.184	-0.104	-0.027	0.104	
Elasticity of E(Y)		-0.056	-0.163	-0.129	-0.190	-0.059	-0.184	-0.105	-0.028	0.105	
Elasticity of SIGMA(Y)		-0.020	-0.069	-0.105	-0.138	-0.043	-0.143	-0.081	-0.132	0.039	
Elasticity of GAMMA(Y)		0.11D+00	0.95D-01	0.25D-01	0.53D-01	0.16D-01	0.43D-01	0.25D-01	-0.11D+00	-0.66D-01	
Correlation (Y,X_k) original units		0.081	0.185	0.003	0.084	-0.070	0.078	0.022	-0.198	-0.217	
Correlation (Y,X_k) Box-Cox transf.		0.103	0.025	0.056	0.038	-0.097	-0.007	0.062	-0.252	-0.348	
Marg. Rate of Subst. (d X_ref/d X_k)		0.85D-02	0.47D-01	-0.44D-01	0.79D-02	0.12D-01	0.83D-02	-0.69D-01	-0.30D+00	0.60D-02	
Conditional t-statistic for BETA		(-1.53)	(-1.23)	(-1.69)	(-3.20)	(-0.61)	(-3.20)	(-1.58)	(-0.95)	(1.00)	
PATROL FREQ. OF SQ AND MUC POLICE SURPOL											
BETA coefficient		-0.19D+05	-0.98D+03	0.78D+00	0.81D+00	-0.79D+00	0.61D+00	0.80D+00	0.11D-01	-0.19D-01	
Derivative of Y (sample value)		-0.93D+07	-0.76D+06	0.23D+03	0.51D+02	-0.52D+01	0.52D+02	0.22D+03	0.55D-02	-0.28D-02	
Derivative of E(Y)		-0.93D+07	-0.75D+06	0.22D+03	0.50D+02	-0.49D+01	0.51D+02	0.22D+03	0.56D-02	-0.28D-02	
Derivative of SIGMA(Y)		-0.11D+06	-0.39D+05	0.14D+02	0.27D+01	-0.47D+00	0.28D+01	0.12D+02	0.83D-03	-0.14D-03	
Derivative of GAMMA(Y)		0.93D-03	0.11D-02	-0.91D-03	-0.94D-03	0.38D-02	-0.78D-03	-0.71D-03	0.71D-02	0.55D-02	
Elasticity of Y (sample value)		-0.155	-0.102	0.205	0.173	-0.399	0.167	0.156	0.032	-0.461	
Elasticity of E(Y)		-0.157	-0.103	0.206	0.174	-0.407	0.167	0.156	0.033	-0.465	
Elasticity of SIGMA(Y)		-0.054	-0.043	0.167	0.127	-0.299	0.129	0.121	0.155	-0.175	
Elasticity of GAMMA(Y)		0.32D+00	0.60D-01	-0.40D-01	-0.49D-01	0.11D+00	-0.39D-01	-0.37D-01	0.13D+00	0.29D+00	
Correlation (Y,X_k) original units		0.544	0.422	0.526	0.441	0.397	0.443	0.570	-0.013	-0.104	
Correlation (Y,X_k) Box-Cox transf.		0.592	0.078	0.674	0.632	0.709	0.544	0.724	-0.002	-0.147	
Marg. Rate of Subst. (d X_ref/d X_k)		0.28D-02	0.36D-02	0.86D-02	-0.87D-03	0.98D-02	-0.92D-03	0.13D-01	0.43D-01	-0.32D-02	
Conditional t-statistic for BETA		(-3.79)	(-0.75)	(1.90)	(2.02)	(-2.39)	(2.09)	(1.50)	(0.75)	(-2.92)	
		ELI	ELI	ELI	ELI	ELI	ELI	ELI	ELI	ELI	
STRIKES OF SQ AND MUC POLICE GRPOL											
(Quasi-dummy) -----											
BETA coefficient		-0.97D+03	-0.13D+04	-0.18D+00	0.15D+00	-0.36D-01	0.11D+00	0.53D-01	0.30D-02	0.59D-02	
Derivative of Y (sample value)		-0.98D+06	-0.25D+07	-0.30D+03	0.43D+02	-0.11D+01	0.46D+02	0.76D+02	0.14D-01	0.19D-02	
Derivative of E(Y)		-0.98D+06	-0.25D+07	-0.29D+03	0.42D+02	-0.11D+01	0.45D+02	0.75D+02	0.14D-01	0.19D-02	
Derivative of SIGMA(Y)		-0.12D+05	-0.13D+06	-0.18D+02	0.22D+01	-0.10D+00	0.25D+01	0.40D+01	0.21D-02	0.99D-04	
Derivative of GAMMA(Y)		0.98D-04	0.37D-02	0.12D-02	-0.79D-03	0.84D-03	-0.70D-03	-0.24D-03	0.18D-01	-0.38D-02	
Elasticity of Y (sample value)		-0.001	-0.021	-0.017	0.009	-0.006	0.010	0.003	0.005	0.020	
Elasticity of E(Y)		-0.001	-0.022	-0.017	0.009	-0.006	0.010	0.003	0.005	0.020	
Elasticity of SIGMA(Y)		0.000	-0.009	-0.014	0.007	-0.004	0.007	0.003	0.025	0.008	
Elasticity of GAMMA(Y)		0.21D-02	0.13D-01	0.33D-02	-0.26D-02	0.15D-02	-0.22D-02	-0.80D-03	0.21D-01	-0.13D-01	
Correlation (Y,X_k) original units		0.064	0.057	-0.015	-0.007	-0.007	-0.007	-0.015	-0.032	-0.004	
Correlation (Y,X_k) Box-Cox transf.		0.063	0.009	0.026	0.003	0.034	-0.004	0.041	-0.043	0.009	
Marg. Rate of Subst. (d X_ref/d X_k)		0.30D-03	0.12D-01	-0.11D-01	-0.73D-03	0.21D-02	-0.82D-03	0.43D-02	0.11D+00	0.22D-02	
Conditional t-statistic for BETA		(-0.08)	(-0.32)	(-0.50)	(0.57)	(-0.13)	(0.55)	(0.15)	(0.07)	(0.17)	
N-T = NETWORK - TIME SERVICE LEVELS											

TRANSIT WAIT TIME, MONTREAL TW822											
BETA coefficient		0.35D+05									
Derivative of Y (sample value)		0.21D+08									
Derivative of E(Y)		0.21D+08									
Derivative of SIGMA(Y)		0.25D+06									
Derivative of GAMMA(Y)		-0.21D-02									
Elasticity of Y (sample value)		0.201									
Elasticity of E(Y)		0.203									
Elasticity of SIGMA(Y)		0.070									
Elasticity of GAMMA(Y)		-0.41D+00									
Correlation (Y,X_k) original units		0.884									
Correlation (Y,X_k) Box-Cox transf.		0.910									
Marg. Rate of Subst. (d X_ref/d X_k)		-0.63D-02									
Conditional t-statistic for BETA		(2.78)									
		ELI									
COMPLETE TRANSIT STRIKES, MONTREAL STR813											
(Quasi-dummy) -----											
BETA coefficient		0.84D+03	0.22D+03	0.75D-02	0.33D-01	0.25D-01	0.20D-01	0.73D-02	-0.28D-03	0.13D-03	
Derivative of Y (sample value)		0.85D+06	0.42D+06	0.12D+02	0.96D+01	0.77D+00	0.88D+01	0.10D+02	-0.13D-02	0.44D-04	
Derivative of E(Y)		0.84D+06	0.41D+06	0.12D+02	0.94D+01	0.72D+00	0.86D+01	0.10D+02	-0.13D-02	0.44D-04	
Derivative of SIGMA(Y)		0.10D+05	0.21D+05	0.74D+00	0.50D+00	0.70D-01	0.48D+00	0.56D+00	-0.20D-03	0.23D-05	
Derivative of GAMMA(Y)		-0.84D-04	-0.61D-03	-0.48D-04	-0.18D-03	-0.57D-03	-0.13D-03	-0.33D-04	-0.17D-02	-0.87D-04	
Elasticity of Y (sample value)		0.012	0.048	0.009	0.028	0.051	0.024	0.006	-0.007	0.006	
Elasticity of E(Y)		0.012	0.048	0.009	0.028	0.052	0.024	0.006	-0.007	0.006	
Elasticity of SIGMA(Y)		0.004	0.020	0.008	0.020	0.038	0.019	0.005	-0.032	0.002	
Elasticity of GAMMA(Y)		-0.25D-01	-0.28D-01	-0.18D-02	-0.79D-02	-0.14D-01	-0.58D-02	-0.15D-02	-0.27D-01	-0.40D-02	
Correlation (Y,X_k) original units		0.139	0.117	0.090	0.160	0.162	0.161	0.118	-0.036	-0.001	
Correlation (Y,X_k) Box-Cox transf.		0.141	0.017	0.121	0.118	0.183	0.089	0.148	-0.041	-0.113	
Marg. Rate of Subst. (d X_ref/d X_k)		-0.26D-03	-0.20D-02	0.45D-03	-0.16D-03	-0.15D-02	-0.16D-03	0.59D-03	-0.10D-01	0.51D-04	
Conditional t-statistic for BETA		(1.41)	(0.67)	(0.42)	(1.45)	(1.35)	(1.40)	(0.31)	(-0.93)	(0.13)	
PARTIAL TRANSIT STRIKES, MONTREAL STRP											
(Quasi-dummy) -----											
BETA coefficient		0.28D+04	0.35D+03	0.30D-01	-0.72D-02	-0.21D-01	-0.54D-02	0.40D-01	-0.81D-04	-0.26D-02	
Derivative of Y (sample value)		0.29D+07	0.66D+06	0.49D+02	-0.21D+01	-0.64D+00	-0.24D+01	0.57D+02	-0.37D-03	-0.84D-03	
Derivative of E(Y)		0.29D+07	0.66D+06	0.48D+02	-0.21D+01	-0.60D+00	-0.23D+01	0.56D+02	-0.38D-03	-0.83D-03	
Derivative of SIGMA(Y)		0.35D+05	0.34D+05	0.30D+01	-0.11D+00	-0.58D-01	-0.13D+00	0.30D+01	-0.56D-04	-0.43D-04	
Derivative of GAMMA(Y)		-0.29D-03	-0.97D-03	-0.19D-03	0.39D-04	0.47D-03	0.36D-04	-0.18D-03	-0.48D-03	0.17D-02	
Elasticity of Y (sample value)		0.044	0.082	0.040	-0.007	-0.045	-0.007	0.037	-0.002	-0.127	
Elasticity of E(Y)		0.044	0.082	0.040	-0.007	-0.046	-0.007	0.037	-0.002	-0.128	
Elasticity of SIGMA(Y)		0.015	0.035	0.033	-0.005	-0.034	-0.005	0.029	-0.010	-0.048	
Elasticity of GAMMA(Y)		-0.90D-01	-0.48D-01	-0.79D-02	0.19D-02	0.12D-01	0.17D-02	-0.86D-02	-0.83D-02	0.81D-01	
Correlation (Y,X_k) original units		0.108	0.086	0.010	0.157	0.117	0.157	0.047	-0.047	-0.056	
Correlation (Y,X_k) Box-Cox transf.		0.117	0.083	0.062	0.082	0.106	0.070	0.077	-0.040	-0.094	
Marg. Rate of Subst. (d X_ref/d X_k)		-0.88D-03	-0.31D-02	0.18D-02	0.36D-04	0.12D-02	0.42D-04	0.32D-02	-0.29D-02	-0.96D-03	
Conditional t-statistic for BETA		(2.96)	(1.11)	(0.79)	(-0.12)	(-0.73)	(-0.15)	(0.80)	(-0.07)	(-1.19)	
COMPLETE TRANSIT STRIKES, QUE.CITY STRC0Q											
(Dummy) =====											
BETA coefficient		0.74D+02	-0.42D+02	-0.90D-02	-0.13D-01	-0.12D-01	-0.96D-02	-0.15D-01	0.16D-03	-0.40D-03	
Derivative of Y (sample value)		0.75D+05	-0.80D+05	-0.15D+02	-0.39D+01	-0.38D+00	-0.41D+01	-0.21D+02	0.72D-03	-0.13D-03	
Derivative of E(Y)		0.75D+05	-0.79D+05	-0.14D+02	-0.38D+01	-0.36D+00	-0.41D+01	-0.21D+02	0.74D-03	-0.13D-03	
Derivative of SIGMA(Y)		0.92D+03	-0.41D+04	-0.89D+00	-0.20D+00	-0.35D-01	-0.23D+00	-0.11D+01	0.11D-03	-0.68D-05	
Derivative of GAMMA(Y)		-0.75D-05	0.12D-03	0.58D-04	0.71D-04	0.28D-03	0.63D-04	0.68D-04	0.93D-03	0.26D-03	
Elasticity of Y (sample value)		0.003	-0.027	-0.032	-0.0						

Elasticity of E(Y)	0.003	-0.027	-0.033	-0.033	-0.074	-0.033	-0.037	0.011	-0.054
Elasticity of SIGMA(Y)	0.001	-0.011	-0.026	-0.024	-0.054	-0.026	-0.029	0.051	-0.020
Elasticity of GAMMA(Y)	-0.63D-02	0.16D-01	0.64D-02	0.92D-02	0.20D-01	0.79D-02	0.87D-02	0.43D-01	0.34D-01
Correlation (Y,X_k) original units	0.248	0.246	0.127	0.237	0.131	0.235	0.170	0.013	-0.115
Correlation (Y,X_k) Box-Cox transf.	0.261	0.025	0.228	0.187	0.200	0.124	0.257	-0.012	-0.239
Marg. Rate of Subst.(d X_ref/d X_k)	-0.23D-04	0.37D-03	-0.55D-03	0.66D-04	0.71D-03	0.74D-04	-0.12D-02	0.57D-02	-0.15D-03
Conditional t-statistic for BETA	(0.25)	(-0.52)	(-1.19)	(-1.29)	(-1.84)	(-1.31)	(-1.52)	(0.66)	(-1.12)
COMPL. INTRCITY BUS (VOYAGEUR) STRIKES GRVOY									
(Quasi-dummy) -----									
BETA coefficient	0.67D+02	-0.10D+03	-0.82D-02	0.33D-03	-0.23D-02	0.66D-03	-0.41D-02	-0.21D-03	-0.24D-03
Derivative of Y (sample value)	0.68D+05	-0.19D+06	-0.13D+02	0.97D-01	-0.70D-01	0.29D+00	-0.59D+01	-0.95D-03	-0.78D-04
Derivative of E(Y)	0.67D+05	-0.19D+06	-0.13D+02	0.95D-01	-0.66D-01	0.28D+00	-0.58D+01	-0.98D-03	-0.77D-04
Derivative of SIGMA(Y)	0.83D+03	-0.99D+04	-0.82D+00	0.51D-02	-0.64D-02	0.16D-01	-0.31D+00	-0.14D-03	-0.40D-05
Derivative of GAMMA(Y)	-0.68D-05	0.28D-03	0.53D-04	-0.18D-05	0.52D-04	-0.44D-05	0.19D-04	-0.12D-02	0.15D-03
Elasticity of Y (sample value)	0.003	-0.068	-0.031	0.001	-0.014	0.002	-0.011	-0.015	-0.033
Elasticity of E(Y)	0.003	-0.068	-0.031	0.001	-0.014	0.002	-0.011	-0.015	-0.034
Elasticity of SIGMA(Y)	0.001	-0.029	-0.025	0.001	-0.011	0.002	-0.008	-0.071	-0.013
Elasticity of GAMMA(Y)	-0.60D-02	0.40D-01	0.61D-02	-0.24D-03	0.39D-02	-0.57D-03	0.25D-02	-0.60D-01	0.21D-01
Correlation (Y,X_k) original units	0.179	0.202	0.205	0.170	0.003	0.164	0.219	-0.063	-0.201
Correlation (Y,X_k) Box-Cox transf.	0.166	0.003	0.206	0.206	0.081	0.162	0.246	-0.073	-0.377
Marg. Rate of Subst.(d X_ref/d X_k)	-0.21D-04	0.91D-03	-0.50D-03	-0.17D-05	0.13D-03	-0.51D-05	-0.33D-03	-0.75D-02	-0.89D-04
Conditional t-statistic for BETA	(0.22)	(-1.34)	(-0.59)	(0.03)	(-0.32)	(0.09)	(-0.29)	(-0.72)	(-0.50)
N-I = NETWORK - INFRASTRUCTURE WEATHER									
SHARE OF MTL.AUTOR. IN PROV.NETWORK AUTPKRP									
BETA coefficient	0.12D+06	-0.14D+05	-0.72D+01	-0.90D+00	0.50D+00	-0.77D+00	-0.74D+01	-0.67D-01	-0.45D-01
Derivative of Y (sample value)	0.12D+09	-0.26D+08	-0.12D+05	-0.26D+03	0.16D+02	-0.33D+03	-0.11D+05	-0.31D+00	-0.15D-01
Derivative of E(Y)	0.12D+09	-0.26D+08	-0.11D+05	-0.26D+03	0.15D+02	-0.33D+03	-0.11D+05	-0.32D+00	-0.15D-01
Derivative of SIGMA(Y)	0.15D+07	-0.13D+07	-0.71D+03	-0.14D+02	0.14D+01	-0.18D+02	-0.57D+03	-0.47D-01	-0.76D-03
Derivative of GAMMA(Y)	-0.12D-01	0.39D-01	0.46D-01	0.49D-02	-0.12D-01	0.51D-02	0.34D-01	-0.40D+00	0.29D-01
Elasticity of Y (sample value)	0.082	-0.139	-0.408	-0.035	0.047	-0.042	-0.295	-0.072	-0.096
Elasticity of E(Y)	0.082	-0.139	-0.410	-0.035	0.048	-0.043	-0.296	-0.074	-0.096
Elasticity of SIGMA(Y)	0.028	-0.059	-0.332	-0.026	0.035	-0.033	-0.229	-0.345	-0.036
Elasticity of GAMMA(Y)	-0.17D+00	0.82D-01	0.80D-01	0.10D-01	-0.13D-01	0.10D-01	0.69D-01	-0.29D+00	0.61D-01
Correlation (Y,X_k) original units	0.933	0.873	0.710	0.721	0.434	0.715	0.796	-0.147	-0.390
Correlation (Y,X_k) Box-Cox transf.	0.942	0.589	0.835	0.875	0.651	0.825	0.884	-0.148	-0.534
Marg. Rate of Subst.(d X_ref/d X_k)	-0.38D-01	0.12D+00	-0.43D+00	0.45D-02	-0.29D-01	0.59D-02	-0.60D+00	-0.24D+01	-0.17D-01
Conditional t-statistic for BETA	(1.58)	(-0.62)	(-3.87)	(-0.33)	(0.33)	(-0.36)	(-3.43)	(-1.69)	(-0.64)
STRIKES, STREET MAINTENANCE IN MTL GRMUMH									
(Quasi-dummy) -----									
BETA coefficient	0.76D+03	0.64D+02	-0.22D-02	0.33D-01	-0.96D-02	0.24D-01	0.15D-01	0.83D-04	-0.25D-03
Derivative of Y (sample value)	0.77D+06	0.12D+06	-0.36D+01	0.99D+01	-0.30D+00	0.11D+02	0.22D+02	0.39D-03	-0.83D-04
Derivative of E(Y)	0.77D+06	0.12D+06	-0.36D+01	0.97D+01	-0.28D+00	0.10D+02	0.22D+02	0.40D-03	-0.82D-04
Derivative of SIGMA(Y)	0.95D+04	0.62D+04	-0.22D+00	0.52D+00	-0.27D-01	0.57D+00	0.12D+01	0.58D-04	-0.43D-05
Derivative of GAMMA(Y)	-0.77D-04	-0.18D-03	0.14D-04	-0.18D-03	0.22D-03	-0.16D-03	-0.70D-04	0.50D-03	0.16D-03
Elasticity of Y (sample value)	0.020	0.025	-0.005	0.052	-0.035	0.053	0.024	0.004	-0.021
Elasticity of E(Y)	0.020	0.025	-0.005	0.052	-0.036	0.053	0.024	0.004	-0.021
Elasticity of SIGMA(Y)	0.007	0.011	-0.004	0.038	-0.027	0.041	0.019	0.017	-0.008
Elasticity of GAMMA(Y)	-0.41D-01	-0.15D-01	0.10D-02	-0.15D-01	0.97D-02	-0.13D-01	-0.56D-02	0.14D-01	0.14D-01
Correlation (Y,X_k) original units	0.092	0.108	0.086	0.012	-0.063	0.009	0.077	0.011	-0.125
Correlation (Y,X_k) Box-Cox transf.	0.090	0.037	0.104	0.137	0.036	0.116	0.127	0.006	-0.212
Marg. Rate of Subst.(d X_ref/d X_k)	-0.24D-03	-0.57D-03	-0.14D-03	-0.17D-03	0.56D-03	-0.19D-03	0.12D-02	0.30D-02	-0.95D-04
Conditional t-statistic for BETA	(0.53)	(0.14)	(-0.15)	(1.02)	(-0.48)	(1.06)	(0.77)	(0.21)	(-0.27)
HOT OR COLD REL.TO 56 D.FAHRENHEIT TLK822									
BETA coefficient	0.58D+02	0.26D+01	0.54D-02	0.12D-02	-0.26D-02	0.50D-03	0.45D-02	0.34D-04	-0.56D-04
Derivative of Y (sample value)	0.59D+05	0.50D+04	0.88D+01	0.35D+00	-0.82D-01	0.22D+00	0.64D+01	0.16D-03	-0.18D-04
Derivative of E(Y)	0.59D+05	0.49D+04	0.86D+01	0.34D+00	-0.77D-01	0.21D+00	0.63D+01	0.16D-03	-0.18D-04
Derivative of SIGMA(Y)	0.72D+03	0.25D+03	0.54D+00	0.18D-01	-0.75D-02	0.12D-01	0.34D+00	0.24D-04	-0.94D-06
Derivative of GAMMA(Y)	-0.59D-05	-0.73D-05	-0.35D-04	-0.64D-05	0.61D-04	-0.33D-05	-0.20D-04	0.20D-03	0.36D-04
Elasticity of Y (sample value)	0.023	0.016	0.183	0.027	-0.147	0.016	0.105	0.022	-0.070
Elasticity of E(Y)	0.023	0.016	0.184	0.028	-0.150	0.017	0.105	0.022	-0.071
Elasticity of SIGMA(Y)	0.008	0.007	0.149	0.020	-0.110	0.013	0.082	0.104	-0.027
Elasticity of GAMMA(Y)	-0.47D-01	-0.91D-02	-0.36D-01	-0.78D-02	0.40D-01	-0.39D-02	-0.25D-01	0.88D-01	0.45D-01
Correlation (Y,X_k) original units	-0.044	0.046	0.424	-0.426	-0.576	-0.436	0.263	0.034	-0.354
Correlation (Y,X_k) Box-Cox transf.	-0.061	0.019	0.207	0.016	-0.321	-0.003	0.101	0.089	-0.121
Marg. Rate of Subst.(d X_ref/d X_k)	-0.18D-04	-0.23D-04	0.33D-03	-0.59D-05	0.15D-03	-0.39D-05	0.36D-03	0.12D-02	-0.21D-04
Conditional t-statistic for BETA	(2.86)	(0.55)	(8.91)	(0.96)	(-5.34)	(0.57)	(5.50)	(3.08)	(-2.48)
RAINFALL PER DAY AT DORVAL AIRPORT RPK822									
BETA coefficient	-0.53D+04	0.48D+03	0.25D+00	0.49D-02	-0.64D-03	0.41D-02	0.27D+00	0.35D-02	-0.78D-05
Derivative of Y (sample value)	-0.54D+07	0.92D+06	0.40D+03	0.15D+01	-0.20D-01	0.18D+01	0.38D+03	0.16D-01	-0.25D-05
Derivative of E(Y)	-0.54D+07	0.91D+06	0.39D+03	0.14D+01	-0.19D-01	0.17D+01	0.38D+03	0.17D-01	-0.25D-05
Derivative of SIGMA(Y)	-0.66D+05	0.47D+05	0.25D+02	0.76D-01	-0.18D-02	0.96D-01	0.20D+02	0.25D-02	-0.13D-06
Derivative of GAMMA(Y)	0.54D-03	-0.13D-02	-0.16D-02	-0.27D-04	0.15D-04	-0.27D-04	-0.12D-02	0.21D-01	0.50D-05
Elasticity of Y (sample value)	-0.008	0.011	0.034	0.000	0.000	0.001	0.025	0.009	0.000
Elasticity of E(Y)	-0.008	0.012	0.034	0.000	0.000	0.001	0.025	0.009	0.000
Elasticity of SIGMA(Y)	-0.003	0.005	0.027	0.000	0.000	0.000	0.019	0.043	0.000
Elasticity of GAMMA(Y)	0.17D-01	-0.67D-02	-0.66D-02	-0.13D-03	0.39D-04	-0.13D-03	-0.59D-02	0.37D-01	0.25D-04
Correlation (Y,X_k) original units	0.139	0.047	-0.197	0.369	0.482	0.378	-0.080	0.079	0.275
Correlation (Y,X_k) Box-Cox transf.	0.143	0.004	0.001	0.046	0.279	0.029	0.040	0.072	0.012
Marg. Rate of Subst.(d X_ref/d X_k)	0.16D-02	-0.43D-02	0.15D-01	-0.25D-04	0.37D-04	-0.31D-04	0.21D-01	0.13D+00	-0.29D-05
Conditional t-statistic for BETA	(-1.75)	(0.86)	(3.53)	(0.05)	(-0.01)	(0.06)	(2.85)	(1.64)	(0.00)
SNOWFALL PER DAY AT DORVAL AIRPORT SFK822									
BETA coefficient	0.76D+03	-0.16D+03	0.86D-01	0.13D-01	0.26D-01	0.72D-02	0.97D-01	-0.34D-04	-0.71D-03
Derivative of Y (sample value)	0.77D+06	-0.30D+06	0.14D+03	0.38D+01	0.81D+00	0.31D+01	0.14D+03	-0.16D-03	-0.23D-03
Derivative of E(Y)	0.77D+06	-0.30D+06	0.14D+03	0.37D+01	0.76D+00	0.30D+01	0.14D+03	-0.16D-03	-0.23D-03
Derivative of SIGMA(Y)	0.95D+04	-0.16D+05	0.85D+01	0.20D+00	0.74D-01	0.17D+00	0.74D+01	-0.24D-04	-0.12D-04
Derivative of GAMMA(Y)	-0.77D-04	0.45D-03	-0.55D-03	-0.70D-04	-0.60D-03	-0.47D-04	-0.45D-03	-0.20D-03	0.46D-03
Elasticity of Y (sample value)	0.004	-0.012	0.038	0.004	0.019	0.003	0.030	0.000	-0.012
Elasticity of E(Y)	0.004	-0.012	0.038	0.004	0.019	0.003	0.030	0.000	-0.012
Elasticity of SIGMA(Y)	0.001	-0.005	0.031	0.003	0.014	0.002	0.023	-0.001	-0.004
Elasticity of GAMMA(Y)	-0.80D-02	0.73D-02	-0.74D-02	-0.11D-02	-0.52D-02	-0.72D-03	-0.70D-02	-0.12D-02	0.74D-02
Correlation (Y,X_k) original units	-0.110	-0.026	0.345	-0.421	-0.524	-0.430	0.196	-0.035	-0.294
Correlation (Y,X_k) Box-Cox transf.	-0.119	0.019	0.071	-0.092	-0.348	-0.056	-0.041	-0.027	0.018
Marg. Rate of Subst.(d X_ref/d X_k)	-0.24D-03	0.14D-02	0.52D-02	-0.65D-04	-0.15D-02	-0.55D-04	0.79D-02	-0.12D-02	-0.27D-03
Conditional t-statistic for BETA	(1.08)	(-1.04)	(5.37)	(0.56)	(1.48)	(0.46)	(4.63)	(-0.10)	(-0.90)
ACCUMUL.SNOWFALL AT DORVAL AIRPORT CSFMR822									
BETA coefficient	-0.33D+03	0.80D+02	0.62D-02	-0.82D-02	-0.16D-01	-0.52D-02	0.72D-02	0.39D-04	-0.37D-04
Derivative of Y (sample value)	-0.33D+06	0.15D+06	0.10D+02	-0.24D+01	-0.49D+00	-0.22D+01	0.10D+02	0.18D-03	-0.12D-04
Derivative of E(Y)	-0.33D+06	0.15D+06	0.98D+01	-0.24D+01	-0.46D+00	-0.22D+01	0.10D+02	0.18D-03	-0.12D-04
Derivative of SIGMA(Y)	-0.40D+04	0.78D+04	0.61D+00	-0.13D+00	-0.45D-01	-0.12D+00	0.55D+00	0.27D-04	-0.63D-06

Y-G = CONSUMERS - GENERAL CHARACTERISTICS

NUMBER OF DRIVER'S LICENSES PER CAR PERPA

BETA coefficient	0.32D+05	-0.20D+01	-0.69D+00	0.20D+01	-0.73D+00	-0.29D+01	-0.77D-01	0.41D-01
Derivative of Y (sample value)	0.29D+08	-0.27D+04	-0.17D+03	0.50D+02	-0.26D+03	-0.34D+04	-0.27D+00	0.12D-01
Derivative of E(Y)	0.29D+08	-0.26D+04	-0.16D+03	0.47D+02	-0.26D+03	-0.34D+04	-0.28D+00	0.12D-01
Derivative of SIGMA(Y)	0.36D+06	-0.16D+03	-0.87D+01	0.46D+01	-0.14D+02	-0.18D+03	-0.41D-01	0.62D-03
Derivative of GAMMA(Y)	-0.29D-02	0.11D-01	0.31D-02	-0.37D-01	0.39D-02	0.11D-01	-0.35D+00	-0.24D-01
Elasticity of Y (sample value)	0.077	-0.374	-0.089	0.605	-0.132	-0.377	-0.252	0.311
Elasticity of E(Y)	0.078	-0.375	-0.090	0.616	-0.132	-0.378	-0.258	0.314
Elasticity of SIGMA(Y)	0.027	-0.303	-0.065	0.452	-0.102	-0.293	-1.208	0.118
Elasticity of GAMMA(Y)	-0.16D+00	0.74D-01	0.25D-01	-0.17D+00	0.31D-01	0.89D-01	-0.10D+01	-0.20D+00
Correlation (Y,X_k) original units	-0.282	-0.256	-0.253	-0.368	-0.260	-0.289	-0.240	-0.150
Correlation (Y,X_k) Box-Cox transf.	-0.322	-0.358	-0.304	-0.522	-0.267	-0.375	-0.283	-0.167
Marg. Rate of Subst. (d X_ref/d X_k)	-0.90D-02	-0.99D-01	0.29D-02	-0.94D-01	0.46D-02	-0.19D+00	-0.21D+01	0.14D-01
Conditional t-statistic for BETA	(0.42)	(-1.80)	(-0.47)	(1.96)	(-0.63)	(-2.25)	(-2.81)	(1.05)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1	EL1

PROBAB. THAT A DRIVER BE UNEMPLOYED PRCHOM

BETA coefficient	-0.39D+06	-0.29D+01	-0.22D+01	-0.17D+01	-0.12D+01	-0.42D+01	-0.13D-01	-0.86D-01
Derivative of Y (sample value)	-0.12D+10	-0.65D+05	-0.70D+04	-0.55D+03	-0.67D+04	-0.74D+05	-0.19D+01	-0.94D-01
Derivative of E(Y)	-0.12D+10	-0.63D+05	-0.68D+04	-0.52D+03	-0.66D+04	-0.73D+05	-0.20D+01	-0.94D-01
Derivative of SIGMA(Y)	-0.15D+08	-0.40D+04	-0.36D+03	-0.51D+02	-0.36D+03	-0.40D+04	-0.29D+00	-0.49D-02
Derivative of GAMMA(Y)	0.12D+00	0.26D+00	0.13D+00	0.41D+00	0.10D+00	0.24D+00	-0.25D+01	0.19D+00
Elasticity of Y (sample value)	-0.095	-0.272	-0.111	-0.201	-0.101	-0.245	-0.054	-0.073
Elasticity of E(Y)	-0.096	-0.273	-0.112	-0.205	-0.102	-0.245	-0.055	-0.074
Elasticity of SIGMA(Y)	-0.033	-0.221	-0.081	-0.150	-0.079	-0.190	-0.257	-0.028
Elasticity of GAMMA(Y)	0.19D+00	0.54D-01	0.31D-01	0.55D-01	0.24D-01	0.58D-01	-0.22D+00	0.47D-01
Correlation (Y,X_k) original units	0.106	0.115	-0.174	-0.517	-0.191	0.053	-0.385	-0.569
Correlation (Y,X_k) Box-Cox transf.	0.080	0.058	0.033	-0.378	-0.015	0.052	-0.452	-0.549
Marg. Rate of Subst. (d X_ref/d X_k)	0.37D+00	-0.24D+01	0.12D+00	0.10D+01	0.12D+00	-0.42D+01	-0.15D+02	-0.11D+00
Conditional t-statistic for BETA	(-3.96)	(-4.61)	(-1.99)	(-2.30)	(-1.80)	(-5.00)	(-2.54)	(-0.84)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1	EL1

ROAD VICTIM INDEMN.ACT (01/07/61) LOIND61

(Dummy)	=====							
BETA coefficient	0.16D+05	0.40D+04	0.14D+01	0.11D+01	-0.12D+00	0.74D+00	0.18D+01	-0.20D-01
Derivative of Y (sample value)	0.16D+08	0.77D+07	0.23D+04	0.32D+03	-0.37D+01	0.32D+03	0.26D+04	-0.91D-01
Derivative of E(Y)	0.16D+08	0.76D+07	0.22D+04	0.32D+03	-0.35D+01	0.32D+03	0.26D+04	-0.93D-01
Derivative of SIGMA(Y)	0.20D+06	0.39D+06	0.14D+03	0.17D+02	-0.34D+00	0.17D+02	0.14D+03	-0.14D-01
Derivative of GAMMA(Y)	-0.16D-02	-0.11D-01	-0.91D-02	-0.60D-02	0.28D-02	-0.49D-02	-0.82D-02	-0.12D+00
Elasticity of Y (sample value)	0.032	0.125	0.247	0.132	-0.035	0.125	0.219	-0.065
Elasticity of E(Y)	0.033	0.125	0.248	0.133	-0.035	0.126	0.220	-0.067
Elasticity of SIGMA(Y)	0.011	0.053	0.201	0.097	-0.026	0.097	0.170	-0.312
Elasticity of GAMMA(Y)	-0.66D-01	-0.73D-01	-0.49D-01	-0.38D-01	0.94D-02	-0.30D-01	-0.51D-01	-0.26D+00
Correlation (Y,X_k) original units	0.577	0.485	0.585	0.552	0.463	0.553	0.647	0.018
Correlation (Y,X_k) Box-Cox transf.	0.620	0.229	0.779	0.723	0.718	0.664	0.806	0.048
Marg. Rate of Subst. (d X_ref/d X_k)	-0.49D-02	-0.36D-01	0.85D-01	-0.55D-02	0.70D-02	-0.57D-02	0.15D+00	-0.72D+00
Conditional t-statistic for BETA	(1.30)	(1.56)	(6.48)	(3.49)	(-0.58)	(3.14)	(6.71)	(-3.74)
								(-4.06)

AUTOMOBILE INSURANCE ACT (01/03/78) LOIAS

(Dummy)	=====							
BETA coefficient	0.13D+05	0.16D+04	0.48D+00	0.22D+01	0.12D+00	0.14D+01	0.12D+01	-0.17D-02
Derivative of Y (sample value)	0.13D+08	0.31D+07	0.77D+03	0.64D+03	0.37D+01	0.61D+03	0.17D+04	-0.77D-02
Derivative of E(Y)	0.13D+08	0.30D+07	0.76D+03	0.63D+03	0.35D+01	0.60D+03	0.17D+04	-0.79D-02
Derivative of SIGMA(Y)	0.16D+06	0.16D+06	0.47D+02	0.34D+02	0.34D+00	0.33D+02	0.92D+02	-0.12D-02
Derivative of GAMMA(Y)	-0.13D-02	-0.45D-02	-0.31D-02	-0.12D-01	-0.27D-02	-0.93D-02	-0.55D-02	-0.99D-02
Elasticity of Y (sample value)	0.027	0.050	0.084	0.263	0.034	0.239	0.146	-0.005
Elasticity of E(Y)	0.027	0.050	0.084	0.265	0.035	0.240	0.146	-0.006
Elasticity of SIGMA(Y)	0.009	0.021	0.068	0.193	0.026	0.185	0.114	-0.026
Elasticity of GAMMA(Y)	-0.55D-01	-0.29D-01	-0.17D-01	-0.74D-01	-0.94D-02	-0.56D-01	-0.34D-01	-0.22D-01
Correlation (Y,X_k) original units	0.539	0.694	0.454	0.515	0.034	0.499	0.519	-0.199
Correlation (Y,X_k) Box-Cox transf.	0.533	0.355	0.486	0.547	0.082	0.507	0.520	-0.226
Marg. Rate of Subst. (d X_ref/d X_k)	-0.41D-02	-0.14D-01	0.29D-01	-0.11D-01	-0.69D-02	-0.11D-01	0.97D-01	-0.60D-01
Conditional t-statistic for BETA	(0.80)	(0.42)	(1.07)	(8.14)	(0.61)	(7.19)	(2.38)	(-0.23)
								(-2.97)

Y-A = CONSUMERS - AGE

18 TO 16 LOW.MIN.DRIV.AGE (01/07/62) MOP62

(Dummy)	=====							
BETA coefficient	0.39D+04	0.10D+05	0.70D+00	0.55D+00	0.16D+01	0.48D+00	0.79D+00	0.11D-01
Derivative of Y (sample value)	0.39D+07	0.19D+08	0.11D+04	0.16D+03	0.48D+02	0.21D+03	0.11D+04	0.51D-01
Derivative of E(Y)	0.39D+07	0.19D+08	0.11D+04	0.16D+03	0.45D+02	0.20D+03	0.11D+04	0.54D-01
Derivative of SIGMA(Y)	0.48D+05	0.97D+06	0.69D+02	0.85D+01	0.44D+01	0.11D+02	0.61D+02	0.79D-02
Derivative of GAMMA(Y)	-0.39D-03	-0.28D-01	-0.45D-02	-0.30D-02	-0.36D-01	-0.32D-02	-0.36D-02	0.68D-01
Elasticity of Y (sample value)	0.008	0.308	0.123	0.067	0.449	0.081	0.097	0.334
Elasticity of E(Y)	0.008	0.309	0.123	0.067	0.458	0.082	0.097	0.038
Elasticity of SIGMA(Y)	0.003	0.131	0.100	0.049	0.336	0.063	0.075	0.180
Elasticity of GAMMA(Y)	-0.16D-01	-0.18D+00	-0.24D-01	-0.19D-01	-0.12D+00	-0.19D-01	-0.23D-01	0.15D+00
Correlation (Y,X_k) original units	0.640	0.541	0.604	0.599	0.518	0.601	0.675	0.058
Correlation (Y,X_k) Box-Cox transf.	0.677	0.321	0.784	0.767	0.782	0.704	0.821	0.102
Marg. Rate of Subst. (d X_ref/d X_k)	-0.12D-02	-0.89D-01	0.42D-01	-0.28D-02	-0.91D-01	-0.37D-02	0.64D-01	0.41D+00
Conditional t-statistic for BETA	(0.35)	(4.29)	(2.75)	(1.98)	(7.25)	(2.12)	(2.70)	(2.25)
								(5.66)

Y-S = CONSUMERS - SEX

PROB. THAT A DRIVER BE A PREG. WOMAN PRFEVM

BETA coefficient	-0.16D+07	0.29D+01	-0.50D+01	-0.26D+01	-0.26D+01	0.32D+01	0.13D-01	-0.71D+00
Derivative of Y (sample value)	-0.75D+10	0.18D+06	-0.38D+05	-0.21D+04	-0.36D+05	0.15D+06	0.68D+01	-0.12D+01
Derivative of E(Y)	-0.75D+10	0.17D+06	-0.38D+05	-0.20D+04	-0.36D+05	0.15D+06	0.69D+01	-0.12D+01
Derivative of SIGMA(Y)	-0.92D+08	0.11D+05	-0.20D+04	-0.20D+03	-0.20D+04	0.80D+04	0.10D+01	-0.63D-01
Derivative of GAMMA(Y)	0.75D+00	-0.71D+00	0.71D+00	0.16D+01	0.55D+00	-0.48D+00	0.87D+01	0.24D+01
Elasticity of Y (sample value)	-0.173	0.220	-0.179	-0.228	-0.162	0.145	0.055	-0.280
Elasticity of E(Y)	-0.175	0.221	-0.181	-0.233	-0.163	0.146	0.056	-0.282
Elasticity of SIGMA(Y)	-0.060	0.179	-0.132	-0.171	-0.126	0.13	0.264	-0.106
Elasticity of GAMMA(Y)	0.35D+00	-0.43D-01	0.51D-01	0.62D-01	0.38D-01	-0.34D-01	0.22D+00	0.18D+00
Correlation (Y,X_k) original units	-0.665	-0.429	-0.609	-0.572	-0.613	-0.525	0.018	0.053
Correlation (Y,X_k) Box-Cox transf.	-0.692	-0.564	-0.681	-0.726	-0.637	-0.625	0.020	0.124
Marg. Rate of Subst. (d X_ref/d X_k)	0.23D+01	0.67D+01	0.66D+00	0.41D+01	0.65D+00	0.84D+01	0.53D+02	-0.14D+01
Conditional t-statistic for BETA	(-1.75)	(1.33)	(-1.03)	(-1.03)	(-0.85)	(1.07)	(0.83)	(-1.26)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1	EL1

Y-E = CONSUMERS - EBRIETY OR VIGILANCE

AVER. WEEKLY HOURS WORKED IN MANUF. HEUHM

BETA coefficient	-0.25D+01	0.32D+00	0.79D+00	0.31D+00	-0.21D+01	0.51D-01	0.69D-02
Derivative of Y (sample value)	-0.20D+03	0.63D+01	0.16D+01	0.76D+01	-0.17D+03	0.46D-02	0.56D-03
Derivative of E(Y)	-0.20D+03	0.62D+01	0.15D+01	0.75D+01	-0.17D+03	0.47D-02	0.56D-03
Derivative of SIGMA(Y)	-0.13D+02	0.33D+00	0.15D+00	0.42D+00	-0.90D+01	0.69D-03	0.29D-04
Derivative of GAMMA(Y)	0.82D-03	-0.12D-03	-0.12D-02	-0.12D-03	0.54D-03	0.59D-02	-0.11D-02
Elasticity of Y (sample value)	-0.896	0.104	0.607	0.121	-0.579	0.133	0.454
Elasticity of E(Y)	-0.900	0.105	0.619	0.121	-0.581	0.136	0.457
Elasticity of SIGMA(Y)	-0.728	0.076	0.454	0.094	-0.450	0.637	0.172
Elasticity of GAMMA(Y)	0.18D+00	-0.29D-01	-0.17D+00	-0.28D-01	0.14D+00	0.54D+00	-0.29D+00
Correlation (Y,X_k) original units	-0.590	-0.513	-0.146	-0.502	-0.638	0.208	0.484
Correlation (Y,X_k) Box-Cox transf.	-0.621	-0.575	-0.290	-0.481	-0.645	0.259	0.661

Marg. Rate of Subst. (d X_ref/d X_k)	-0.77D-02	-0.11D-03	-0.30D-02	-0.14D-03	-0.95D-02	0.36D-01	0.65D-03
Conditional t-statistic for BETA	(-2.05)	(0.26)	(0.72)	(0.31)	(-1.59)	(0.77)	(0.58)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1
PROB.DRIV.HAS TAKEN DRUGS (\$/ADULT) PRMED							
BETA coefficient	-0.39D+04	0.28D+00	0.17D+01	0.29D+00	0.11D+01	0.60D+00	0.25D-02
Derivative of Y (sample value)	-0.27D+07	0.19D+03	0.23D+03	0.40D+01	0.20D+03	0.37D+03	0.35D-02
Derivative of E(Y)	-0.27D+07	0.18D+03	0.22D+03	0.38D+01	0.20D+03	0.36D+03	0.36D-02
Derivative of SIGMA(Y)	-0.33D+05	0.11D+02	0.12D+02	0.37D+00	0.11D+02	0.20D+02	0.53D-03
Derivative of GAMMA(Y)	0.27D-03	-0.74D-03	-0.41D-02	-0.30D-02	-0.30D-02	-0.12D-02	0.46D-02
Elasticity of Y (sample value)	-0.016	0.060	0.277	0.113	0.233	0.094	0.008
Elasticity of E(Y)	-0.016	0.061	0.279	0.116	0.234	0.094	0.008
Elasticity of SIGMA(Y)	-0.006	0.049	0.203	0.085	0.181	0.073	0.037
Elasticity of GAMMA(Y)	0.33D-01	-0.12D-01	-0.78D-01	-0.31D-01	-0.55D-01	-0.22D-01	0.31D-01
Correlation (Y,X_k) original units	0.507	0.466	0.441	0.401	0.443	0.516	0.002
Correlation (Y,X_k) Box-Cox transf.	0.565	0.624	0.624	0.724	0.533	0.667	0.027
Marg. Rate of Subst. (d X_ref/d X_k)	0.82D-03	0.69D-02	-0.38D-02	-0.76D-02	-0.35D-02	0.21D-01	0.28D-01
Conditional t-statistic for BETA	(-0.41)	(0.59)	(2.91)	(0.70)	(2.58)	(1.10)	(0.19)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1
PROB.DRIV.HAS TAKEN ALCOH. (LI/AD.) PRALIT							
BETA coefficient	-0.11D+05	-0.75D+04	0.20D+00	-0.11D+00	-0.97D+00	-0.19D+00	-0.29D+00
Derivative of Y (sample value)	-0.12D+08	-0.16D+08	0.43D+03	-0.41D+02	-0.38D+02	-0.11D+03	-0.54D+03
Derivative of E(Y)	-0.12D+08	-0.16D+08	0.42D+03	-0.40D+02	-0.36D+02	-0.11D+03	-0.53D+03
Derivative of SIGMA(Y)	-0.15D+06	-0.84D+06	0.26D+02	-0.21D+01	-0.35D+01	-0.59D+01	-0.29D+02
Derivative of GAMMA(Y)	0.12D-02	0.24D-01	-0.17D-02	0.75D-03	0.28D-01	0.16D-02	0.17D-02
Elasticity of Y (sample value)	-0.018	-0.190	0.033	-0.012	-0.255	-0.030	0.035
Elasticity of E(Y)	-0.018	-0.191	0.033	-0.012	-0.260	-0.030	0.036
Elasticity of SIGMA(Y)	-0.006	-0.081	0.027	-0.009	-0.191	-0.024	0.025
Elasticity of GAMMA(Y)	0.36D-01	0.11D+00	-0.65D-02	0.34D-02	0.70D-01	0.72D-02	0.77D-02
Correlation (Y,X_k) original units	0.725	0.581	0.504	0.650	0.487	0.649	0.599
Correlation (Y,X_k) Box-Cox transf.	0.736	0.058	0.656	0.630	0.612	0.509	0.725
Marg. Rate of Subst. (d X_ref/d X_k)	0.37D-02	0.77D-01	0.16D-01	0.70D-03	0.72D-01	0.19D-02	-0.30D-01
Conditional t-statistic for BETA	(-0.47)	(-1.71)	(0.31)	(-0.12)	(-1.60)	(-0.32)	(-0.32)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1

A = ACTIVITIES FINAL AND INTERMEDIATE							

EMPLOYMENT PRESENCE INDEX EIQP							
BETA coefficient	0.34D+04						
Derivative of Y (sample value)	0.64D+06						
Derivative of E(Y)	0.64D+06						
Derivative of SIGMA(Y)	0.78D+04						
Derivative of GAMMA(Y)	-0.64D-04						
Elasticity of Y (sample value)	0.170						
Elasticity of E(Y)	0.172						
Elasticity of SIGMA(Y)	0.059						
Elasticity of GAMMA(Y)	-0.35D+00						
Correlation (Y,X_k) original units	0.381						
Correlation (Y,X_k) Box-Cox transf.	0.356						
Marg. Rate of Subst. (d X_ref/d X_k)	-0.20D-03						
Conditional t-statistic for BETA	(1.34)						
	EL1						
PROB.OF WORK TRIP (MEASURE R.1) PRMTRARI							
BETA coefficient	0.17D+02	0.32D+02	0.12D+02	0.14D+02	0.37D+02	0.72D-02	0.60D+01
Derivative of Y (sample value)	0.80D+08	0.12D+08	0.52D+06	0.12D+08	0.11D+09	0.12D+04	0.78D+02
Derivative of E(Y)	0.78D+08	0.12D+08	0.49D+06	0.12D+08	0.11D+09	0.12D+04	0.77D+02
Derivative of SIGMA(Y)	0.49D+07	0.65D+06	0.48D+05	0.67D+06	0.59D+07	0.18D+03	0.40D+01
Derivative of GAMMA(Y)	-0.32D+03	-0.23D+03	-0.39D+03	-0.19D+03	-0.36D+03	0.15D+04	-0.15D+03
Elasticity of Y (sample value)	0.454	0.266	0.253	0.253	0.495	0.045	0.081
Elasticity of E(Y)	0.455	0.268	0.258	0.254	0.496	0.046	0.081
Elasticity of SIGMA(Y)	0.369	0.195	0.189	0.197	0.385	0.214	0.031
Elasticity of GAMMA(Y)	-0.89D-01	-0.75D-01	-0.69D-01	-0.60D-01	-0.12D+00	0.18D+00	-0.52D-01
Correlation (Y,X_k) original units	-0.384	-0.640	-0.502	-0.640	-0.492	-0.106	0.097
Correlation (Y,X_k) Box-Cox transf.	-0.596	-0.484	-0.523	-0.303	-0.683	-0.079	0.477
Marg. Rate of Subst. (d X_ref/d X_k)	0.30D+04	-0.21D+03	-0.98D+03	-0.22D+03	0.63D+04	0.94D+04	0.89D+02
Conditional t-statistic for BETA	(3.02)	(1.62)	(0.98)	(1.64)	(3.07)	(0.66)	(0.23)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1
REAL RETAIL SALES INDEX IN QUEBEC RSIDPQ							
BETA coefficient	0.94D+01						
Derivative of Y (sample value)	0.80D+02						
Derivative of E(Y)	0.79D+02						
Derivative of SIGMA(Y)	0.41D+01						
Derivative of GAMMA(Y)	-0.12D-06						
Elasticity of Y (sample value)	0.492						
Elasticity of E(Y)	0.494						
Elasticity of SIGMA(Y)	0.209						
Elasticity of GAMMA(Y)	-0.29D+00						
Correlation (Y,X_k) original units	0.856						
Correlation (Y,X_k) Box-Cox transf.	0.260						
Marg. Rate of Subst. (d X_ref/d X_k)	-0.37D-06						
Conditional t-statistic for BETA	(2.76)						
	EL1						
REAL RETAIL SALES PER EMPL.PERSON RSIDPQE							
BETA coefficient	0.66D+03						
Derivative of Y (sample value)	0.44D+05						
Derivative of E(Y)	0.43D+05						
Derivative of SIGMA(Y)	0.54D+03						
Derivative of GAMMA(Y)	-0.44D-05						
Elasticity of Y (sample value)	0.235						
Elasticity of E(Y)	0.237						
Elasticity of SIGMA(Y)	0.082						
Elasticity of GAMMA(Y)	-0.48D+00						
Correlation (Y,X_k) original units	0.786						
Correlation (Y,X_k) Box-Cox transf.	0.795						
Marg. Rate of Subst. (d X_ref/d X_k)	-0.13D-04						
Conditional t-statistic for BETA	(3.96)						
	EL1						
PROB.OF SHOPPING TRIP (MEASURE R.1) PRMMAGRI							
BETA coefficient	0.17D+01	0.23D+01	0.26D+01	0.17D+01	0.34D+01	-0.20D-01	0.36D+00
Derivative of Y (sample value)	0.13D+05	0.27D+04	0.33D+03	0.33D+04	0.22D+05	-0.73D+00	0.24D+00
Derivative of E(Y)	0.13D+05	0.27D+04	0.31D+03	0.32D+04	0.22D+05	-0.75D+00	0.24D+00
Derivative of SIGMA(Y)	0.82D+03	0.14D+03	0.30D+02	0.18D+03	0.12D+04	-0.11D+00	0.12D-01
Derivative of GAMMA(Y)	-0.53D-01	-0.50D-01	-0.25D+00	-0.50D-01	-0.70D-01	-0.95D+00	-0.48D+00
Elasticity of Y (sample value)	0.209	0.162	0.448	0.184	0.270	-0.076	0.692
Elasticity of E(Y)	0.210	0.163	0.457	0.185	0.271	-0.077	0.698
Elasticity of SIGMA(Y)	0.170	0.119	0.335	0.143	0.210	-0.363	0.262
Elasticity of GAMMA(Y)	-0.41D-01	-0.46D-01	-0.12D+00	-0.44D-01	-0.63D-01	-0.31D+00	-0.44D+00
Correlation (Y,X_k) original units	0.253	0.184	0.083	0.181	0.266	-0.171	-0.116
Correlation (Y,X_k) Box-Cox transf.	0.242	0.268	0.207	0.248	0.306	-0.236	-0.181
Marg. Rate of Subst. (d X_ref/d X_k)	0.50D+00	-0.47D-01	-0.63D+00	-0.58D-01	0.12D+01	-0.58D+01	0.28D+00
Conditional t-statistic for BETA	(1.50)	(1.07)	(2.19)	(1.28)	(2.00)	(-1.51)	(3.41)
	EL1	EL1	EL1	EL1	EL1	EL1	EL1
VACATION INDEX VMMD							
BETA coefficient	0.75D+04						
Derivative of Y (sample value)	0.75D+07						
Derivative of E(Y)	0.75D+07						
Derivative of SIGMA(Y)	0.92D+05						
Derivative of GAMMA(Y)	-0.75D-03						
Elasticity of Y (sample value)	0.019						
Elasticity of E(Y)	0.019						

Elasticity of SIGMA(Y)	0.006	
Elasticity of GAMMA(Y)	-0.38D-01	
Correlation (Y,X_k) original units	0.157	
Correlation (Y,X_k) Box-Cox transf.	0.155	
Marg. Rate of Subst. (d X_ref/d X_k)	-0.23D-02	
Conditional t-statistic for BETA	(2.04)	
PROB. OF VACATION TRIP (MEASURE R.1)	PRMVACR1	
BETA coefficient	0.39D+04	0.22D+04
Derivative of Y (sample value)	0.63D+07	0.65D+06
Derivative of E(Y)	0.61D+07	0.64D+06
Derivative of SIGMA(Y)	0.38D+06	0.34D+05
Derivative of GAMMA(Y)	-0.25D+02	-0.12D+02
Elasticity of Y (sample value)	0.030	0.012
Elasticity of E(Y)	0.030	0.012
Elasticity of SIGMA(Y)	0.024	0.009
Elasticity of GAMMA(Y)	-0.58D-02	-0.33D-02
Correlation (Y,X_k) original units	-0.107	0.266
Correlation (Y,X_k) Box-Cox transf.	0.017	-0.024
Marg. Rate of Subst. (d X_ref/d X_k)	0.23D+03	-0.11D+02
Conditional t-statistic for BETA	(2.37)	(0.86)
EXPO 1967	EX7	
(Quasi-dummy)	---	
BETA coefficient	0.37D-02	
Derivative of Y (sample value)	0.37D+01	
Derivative of E(Y)	0.37D+01	
Derivative of SIGMA(Y)	0.46D-01	
Derivative of GAMMA(Y)	-0.37D-09	
Elasticity of Y (sample value)	0.020	
Elasticity of E(Y)	0.020	
Elasticity of SIGMA(Y)	0.007	
Elasticity of GAMMA(Y)	-0.40D-01	
Correlation (Y,X_k) original units	-0.044	
Correlation (Y,X_k) Box-Cox transf.	-0.033	
Marg. Rate of Subst. (d X_ref/d X_k)	-0.11D-08	
Conditional t-statistic for BETA	(0.69)	
OLYMPIC GAMES 1976	JO	
(Quasi-dummy)	--	
BETA coefficient	-0.50D+03	
Derivative of Y (sample value)	-0.51D+06	
Derivative of E(Y)	-0.51D+06	
Derivative of SIGMA(Y)	-0.62D+04	
Derivative of GAMMA(Y)	0.51D-04	
Elasticity of Y (sample value)	-0.002	
Elasticity of E(Y)	-0.002	
Elasticity of SIGMA(Y)	-0.001	
Elasticity of GAMMA(Y)	0.44D-02	
Correlation (Y,X_k) original units	0.098	
Correlation (Y,X_k) Box-Cox transf.	0.096	
Marg. Rate of Subst. (d X_ref/d X_k)	0.16D-03	
Conditional t-statistic for BETA	(-0.05)	
REAL MANUFACT.SECTOR DELIVERIES	LIVMAD	
BETA coefficient	0.26D+01	
Derivative of Y (sample value)	0.16D+02	
Derivative of E(Y)	0.16D+02	
Derivative of SIGMA(Y)	0.81D+00	
Derivative of GAMMA(Y)	-0.23D-07	
Elasticity of Y (sample value)	0.228	
Elasticity of E(Y)	0.229	
Elasticity of SIGMA(Y)	0.097	
Elasticity of GAMMA(Y)	-0.13D+00	
Correlation (Y,X_k) original units	0.918	
Correlation (Y,X_k) Box-Cox transf.	0.521	
Marg. Rate of Subst. (d X_ref/d X_k)	-0.74D-07	
Conditional t-statistic for BETA	(0.99)	
REAL MANU.SECT.DELIV.PER EMPL.PERS.	LIVMADPE	
BETA coefficient	0.15D+03	
Derivative of Y (sample value)	0.76D+04	
Derivative of E(Y)	0.75D+04	
Derivative of SIGMA(Y)	0.93D+02	
Derivative of GAMMA(Y)	-0.75D-06	
Elasticity of Y (sample value)	0.095	
Elasticity of E(Y)	0.096	
Elasticity of SIGMA(Y)	0.033	
Elasticity of GAMMA(Y)	-0.19D+00	
Correlation (Y,X_k) original units	0.883	
Correlation (Y,X_k) Box-Cox transf.	0.891	
Marg. Rate of Subst. (d X_ref/d X_k)	-0.23D-05	
Conditional t-statistic for BETA	(0.89)	
BUS-HOURS MTL.TRANSIT COMMISSION	VEHSF	
BETA coefficient	0.36D+01	
Derivative of Y (sample value)	0.30D+02	
Derivative of E(Y)	0.30D+02	
Derivative of SIGMA(Y)	0.15D+01	
Derivative of GAMMA(Y)	-0.44D-07	
Elasticity of Y (sample value)	0.192	
Elasticity of E(Y)	0.193	
Elasticity of SIGMA(Y)	0.081	
Elasticity of GAMMA(Y)	-0.11D+00	
Correlation (Y,X_k) original units	-0.253	
Correlation (Y,X_k) Box-Cox transf.	-0.010	
Marg. Rate of Subst. (d X_ref/d X_k)	-0.14D-06	
Conditional t-statistic for BETA	(0.73)	

ET-AD = ET CETERA - ADMINISTRATIVE		

EXISTENCE STAND.ACC.REPORT IN 1978	DUM78RAU	
(Dummy)	=====	
BETA coefficient	0.17D+00	-0.16D+00
Derivative of Y (sample value)	0.28D+03	-0.23D+03
Derivative of E(Y)	0.27D+03	-0.23D+03
Derivative of SIGMA(Y)	0.17D+02	-0.12D+02
Derivative of GAMMA(Y)	-0.11D-02	0.74D-03
Elasticity of Y (sample value)	0.030	-0.020
Elasticity of E(Y)	0.030	-0.020
Elasticity of SIGMA(Y)	0.024	-0.015
Elasticity of GAMMA(Y)	-0.59D-02	0.46D-02
Correlation (Y,X_k) original units	0.303	0.313
Correlation (Y,X_k) Box-Cox transf.	0.296	0.297
Marg. Rate of Subst. (d X_ref/d X_k)	0.10D-01	-0.13D-01
Conditional t-statistic for BETA	(0.31)	(-0.26)
UNDEREST.DUE TO STD.ACC.REP.IN 1978	SED78RAU	

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(Quasi-dummy) -----
BETA coefficient -0.28D+00 0.36D+00
Derivative of Y (sample value) -0.45D+03 0.51D+03
Derivative of E(Y) -0.44D+03 0.51D+03
Derivative of SIGMA(Y) -0.28D+02 0.27D+02
Derivative of GAMMA(Y) 0.18D+02 -0.16D+02
Elasticity of Y (sample value) -0.024 0.022
Elasticity of E(Y) -0.024 0.022
Elasticity of SIGMA(Y) -0.020 0.017
Elasticity of GAMMA(Y) 0.48D-02 -0.51D-02
Correlation (Y,X_k) original units 0.215 0.217
Correlation (Y,X_k) Box-Cox transf. 0.242 0.243
Marg. Rate of Subst. (d X_ref/d X_k) -0.17D-01 0.29D-01
Conditional t-statistic for BETA ( -0.40) ( 0.43)

REAL MIN.MAT.DMAGE REPORT CRITERION DMSR
BETA coefficient -0.19D+01 -0.18D+01
Derivative of Y (sample value) -0.76D+02 -0.72D+02
Derivative of E(Y) -0.75D+02 -0.71D+02
Derivative of SIGMA(Y) -0.47D+01 -0.38D+01
Derivative of GAMMA(Y) 0.30D-03 0.23D-03
Elasticity of Y (sample value) -0.816 -0.604
Elasticity of E(Y) -0.819 -0.606
Elasticity of SIGMA(Y) -0.663 -0.470
Elasticity of GAMMA(Y) 0.16D+00 0.14D+00
Correlation (Y,X_k) original units -0.057 0.007
Correlation (Y,X_k) Box-Cox transf. -0.041 0.029
Marg. Rate of Subst. (d X_ref/d X_k) -0.28D-02 -0.41D-02
Conditional t-statistic for BETA (-13.06) (-11.45)
ELI ELI

ACC.WITHOUT POL.REP.REQUIR.01/06/79 CONSTA
(Dummy) =====
BETA coefficient -0.41D+00 -0.70D+00
Derivative of Y (sample value) -0.67D+03 -0.10D+04
Derivative of E(Y) -0.66D+03 -0.99D+03
Derivative of SIGMA(Y) -0.41D+02 -0.54D+02
Derivative of GAMMA(Y) 0.27D-02 0.32D-02
Elasticity of Y (sample value) -0.073 -0.085
Elasticity of E(Y) -0.073 -0.086
Elasticity of SIGMA(Y) -0.059 -0.066
Elasticity of GAMMA(Y) 0.14D-01 0.20D-01
Correlation (Y,X_k) original units 0.297 0.361
Correlation (Y,X_k) Box-Cox transf. 0.335 0.371
Marg. Rate of Subst. (d X_ref/d X_k) -0.25D-01 -0.57D-01
Conditional t-statistic for BETA ( -1.04) ( -1.59)

-----
ET-AG = ET CETERA - AGGREGATION
-----
WORKDAYS PER MONTH WD
BETA coefficient 0.10D+05 -0.29D+04 0.14D+01 0.66D+00 -0.11D+00 0.50D+00 0.15D+01 0.44D-01 -0.12D-02
Derivative of Y (sample value) 0.36D+07 -0.15D+07 0.19D+03 0.21D+02 -0.35D+00 0.21D+02 0.20D+03 0.81D-02 -0.13D-03
Derivative of E(Y) 0.35D+07 -0.15D+07 0.18D+03 0.21D+02 -0.33D+00 0.20D+02 0.20D+03 0.83D-02 -0.12D-03
Derivative of SIGMA(Y) 0.44D+05 -0.78D+05 0.12D+02 0.11D+01 -0.32D-01 0.11D+01 0.11D+02 0.12D-02 -0.65D-05
Derivative of GAMMA(Y) -0.36D-03 0.22D-02 -0.75D-03 0.39D-03 0.26D-03 -0.31D-03 -0.63D-03 0.10D-01 0.25D-03
Elasticity of Y (sample value) 0.150 -0.515 0.425 0.183 -0.068 0.168 0.351 0.121 -0.052
Elasticity of E(Y) 0.151 -0.517 0.427 0.184 -0.069 0.169 0.352 0.124 -0.053
Elasticity of SIGMA(Y) 0.052 -0.218 0.345 0.134 -0.051 0.131 0.273 0.581 -0.020
Elasticity of GAMMA(Y) -0.31D+00 0.30D+00 -0.84D-01 -0.52D-01 0.19D-01 -0.40D-01 -0.83D-01 0.49D+00 0.33D-01
Correlation (Y,X_k) original units 0.097 0.042 0.074 0.126 0.077 -0.019 0.061 0.117
Correlation (Y,X_k) Box-Cox transf. 0.087 0.058 0.012 -0.020 0.068 -0.050 0.026 0.014
Marg. Rate of Subst. (d X_ref/d X_k) -0.11D-02 0.71D-02 0.70D-02 -0.36D-03 0.66D-03 -0.37D-03 0.11D-01 0.64D-01 -0.14D-03
Conditional t-statistic for BETA ( 1.73) ( -1.55) ( 2.31) ( 1.21) ( -0.18) ( 1.11) ( 2.05) ( 1.38) ( -0.16)
ELI ELI ELI ELI ELI ELI ELI ELI

SATURDAYS PER MONTH SAT
BETA coefficient -0.59D+04 -0.20D+04 0.64D+00 0.89D+00 -0.11D+00 0.64D+00 0.78D+00 0.20D-01 -0.11D-01
Derivative of Y (sample value) -0.36D+07 -0.21D+07 0.31D+03 0.90D+02 -0.11D+01 0.89D+02 0.36D+03 0.19D-01 -0.22D-02
Derivative of E(Y) -0.36D+07 -0.21D+07 0.31D+03 0.88D+02 -0.11D+01 0.87D+02 0.35D+03 0.20D-01 -0.21D-02
Derivative of SIGMA(Y) -0.44D+05 -0.11D+06 0.19D+02 0.47D+01 -0.10D+00 0.48D+01 0.19D+02 0.29D-02 -0.11D-03
Derivative of GAMMA(Y) 0.36D-03 0.31D-02 -0.13D-02 -0.16D-02 0.84D-03 -0.14D-02 -0.11D-02 0.25D-01 0.43D-02
Elasticity of Y (sample value) -0.031 -0.147 0.148 0.159 -0.046 0.151 0.132 0.060 -0.187
Elasticity of E(Y) -0.032 -0.148 0.149 0.160 -0.047 0.152 0.132 0.062 -0.188
Elasticity of SIGMA(Y) -0.011 -0.062 0.120 0.117 -0.034 0.117 0.102 0.290 -0.071
Elasticity of GAMMA(Y) 0.64D-01 0.87D-01 -0.29D-01 -0.45D-01 0.13D-01 -0.36D-01 -0.31D-01 0.25D+00 0.12D+00
Correlation (Y,X_k) original units -0.007 -0.029 0.001 0.076 0.070 0.076 0.019 0.081 -0.024
Correlation (Y,X_k) Box-Cox transf. 0.011 -0.046 0.012 0.053 0.035 0.079 0.018 0.105 -0.011
Marg. Rate of Subst. (d X_ref/d X_k) 0.11D-02 0.98D-02 0.12D-01 -0.15D-02 0.21D-02 -0.16D-02 0.20D-01 0.15D+00 -0.25D-02
Conditional t-statistic for BETA ( -1.04) ( -1.71) ( 2.63) ( 3.06) ( -0.35) ( 3.09) ( 2.56) ( 1.92) ( -1.61)
ELI ELI ELI ELI ELI ELI ELI ELI

SUNDAYS AND HOLIDAYS PER MONTH SHD
BETA coefficient -0.81D+04 -0.16D+04 0.65D+00 0.51D+00 -0.16D-01 0.39D+00 0.91D+00 0.19D-01 -0.20D-02
Derivative of Y (sample value) -0.46D+07 -0.15D+07 0.28D+03 0.45D+02 -0.14D+00 0.46D+02 0.36D+03 0.16D-01 -0.35D-03
Derivative of E(Y) -0.46D+07 -0.15D+07 0.27D+03 0.44D+02 -0.13D+00 0.46D+02 0.36D+03 0.16D-01 -0.35D-03
Derivative of SIGMA(Y) -0.57D+05 -0.78D+05 0.17D+02 0.23D+01 -0.13D-01 0.25D+01 0.19D+02 0.23D-02 -0.18D-04
Derivative of GAMMA(Y) 0.46D-03 0.23D-02 -0.11D-02 -0.82D-03 0.11D-03 -0.71D-03 -0.12D-02 0.20D-01 0.69D-03
Elasticity of Y (sample value) -0.049 -0.130 0.157 0.095 -0.007 0.095 0.161 0.058 -0.036
Elasticity of E(Y) -0.049 -0.131 0.157 0.096 -0.007 0.096 0.161 0.059 -0.037
Elasticity of SIGMA(Y) -0.017 -0.055 0.127 0.070 -0.005 0.074 0.125 0.278 -0.014
Elasticity of GAMMA(Y) 0.10D+00 0.76D-01 -0.31D-01 -0.27D-01 0.19D-02 -0.22D-01 -0.38D-01 0.24D+00 0.23D-01
Correlation (Y,X_k) original units -0.034 -0.067 0.053 0.044 0.042 0.044 0.057 0.088 0.034
Correlation (Y,X_k) Box-Cox transf. -0.021 -0.081 0.012 0.037 0.042 0.067 0.002 0.116 0.054
Marg. Rate of Subst. (d X_ref/d X_k) 0.14D-02 0.72D-02 0.10D-01 -0.76D-03 0.27D-03 -0.83D-03 0.20D-01 0.12D+00 -0.40D-03
Conditional t-statistic for BETA ( -1.70) ( -1.50) ( 2.98) ( 2.02) ( -0.07) ( 2.04) ( 3.12) ( 2.58) ( -0.40)
ELI ELI ELI ELI ELI ELI ELI ELI

-----
ET-SC = ET CETERA -SEASONALITY,CONSTANT
-----
REGRESSION CONSTANT constant
BETA coefficient -0.38D+07 0.23D+06 0.10D+03 0.90D+02 0.31D+02 0.47D+02 0.17D+03 -0.63D+00 0.74D+01
Conditional t-statistic for BETA ( -1.85) ( 0.68) ( 4.03) ( 1.33) ( 0.74) ( 1.38) ( 3.58) ( -0.60) ( 0.18)

=====
PART II. Parameters
t-statistic unconditional (=0) [=1]
Model type L-1.6 L-1.6 L-1.6 L-1.6 L-1.6 L-1.6 L-1.6 L-1.6 L-1.6
Name of the variant ga_bclau di_bclau ma_bclau nm_bclau mo_bclau co_bclau ac_bclau mb_bc2au mt_bclau
Version number of the variant 51 11 30 30 30 31 29 45 30
Dependent variable in the variant GAR1 DTCR1 MA NM MO COR ACC MBC MTC

=====
Box-Cox transformations (estimated)
-----
Lambda(y) ELY 0.655 0.579 0.191 0.271 0.266 0.226 0.224 -3.587 0.626
( 6.28) ( 10.42) ( 2.15) ( 2.52) ( 3.26) ( 2.06) ( 2.09) ( -7.26) ( 3.21)
[ -3.32] [ -7.57] [ -9.12] [ -6.77] [ -8.99] [ -7.05] [ -7.21] [ -9.29] [ -1.92]

Lambda(x) - group 1 ELI 0.655 0.579 0.191 0.271 0.266 0.226 0.224 -0.063 0.626

```

		(6.28)	(10.42)	(2.15)	(2.52)	(3.26)	(2.06)	(2.09)	(-0.09)	(3.21)
		[-3.32]	[-7.57]	[-9.12]	[-6.77]	[-8.99]	[-7.05]	[-7.21]	[-1.47]	[-1.92]
Autocorrelation										
Order 1	RHO 1		0.455	0.275	0.377		0.389	0.262		
			(8.49)	(4.02)	(6.51)		(6.13)	(4.00)		
Order 2	RHO 2			-0.166		-0.050	0.064	-0.254		
				(-2.54)		(-0.81)	(0.85)	(-3.73)		
Order 3	RHO 3	0.213	0.106	-0.066	-0.204	-0.009	-0.218	-0.133		
		(2.96)	(1.61)	(-0.94)	(-2.94)	(-0.13)	(-3.09)	(-1.75)		
Order 4	RHO 4		0.064	-0.061	-0.192	-0.054	0.039	-0.078	-0.233	
			(0.94)	(-0.87)	(-2.86)	(-0.78)	(0.53)	(-1.21)	(-3.05)	
Order 5	RHO 5		-0.204	-0.076	-0.053	-0.039	-0.222		-0.084	
			(-3.09)	(-0.98)	(-0.76)	(-0.53)	(-3.30)		(-1.36)	
Order 6	RHO 6		-0.120	-0.030				-0.112	-0.072	
			(-1.62)	(-0.43)				(-1.50)	(-1.13)	
Order 7	RHO 7	-0.233		-0.132	-0.150	-0.098	-0.127		-0.221	
		(-4.06)		(-1.92)	(-2.13)	(-1.35)	(-1.80)		(-3.32)	
Order 8	RHO 8	0.260	-0.020	-0.064	-0.146	-0.068			-0.134	
		(4.40)	(-0.29)	(-0.84)	(-1.99)	(-0.90)			(-1.94)	
Order 9	RHO 9	0.063		-0.117		-0.135	-0.129			
		(1.13)		(-1.55)		(-1.72)	(-2.07)			
Order 10	RHO 10	-0.226		-0.182		0.116	-0.136	-0.072	-0.064	
		(-2.92)		(-2.75)		(1.42)	(-2.05)	(-1.07)	(-1.11)	
Order 11	RHO 11			0.215	-0.085	0.189			-0.037	
				(3.12)	(-1.13)	(2.50)			(-0.58)	
Order 12	RHO 12	0.149	0.252	0.227	0.166	0.230	0.318		0.053	
		(2.71)	(3.91)	(3.78)	(2.55)	(3.83)	(4.71)		(0.81)	
Order 13	RHO 13			-0.029	-0.134	-0.013				
				(-0.42)	(-2.10)	(-0.18)				
PART III. General statistics										
Model type		L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6	L-1.6
Name of the variant		ga_bclau	di_bclau	ma_bclau	nm_bclau	mo_bclau	co_bclau	ac_bclau	mb_bc2au	mt_bclau
Version number of the variant		51	11	30	30	30	31	29	45	30
Dependent variable in the variant		GAR1	DICR1	MA	NM	MO	COR	ACC	MBC	MTC
Log-likelihood		-5423.64	-5138.78	-2375.98	-1962.33	-1194.76	-1967.93	-2421.53	523.62	1072.46
Degrees of freedom		46	37	52	50	48	51	52	43	47
Pearson R2		0.987	0.966	0.957	0.964	0.897	0.964	0.957	0.363	0.693
Pearson R2 adjusted for Degrees of freedom		0.984	0.961	0.948	0.957	0.878	0.957	0.948	0.257	0.636
Pseudo-(L)-R2		0.988	0.596	0.967	0.942	0.934	0.896	0.978	0.507	0.826
Pseudo-(L)-R2 adjusted for Degrees of freedom		0.986	0.539	0.960	0.930	0.922	0.875	0.974	0.424	0.793
Average probability (Y=limit observation)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sample - Number of observations		313	313	313	313	313	313	313	313	313
Estimation - Number of observations		300	300	300	300	300	300	300	300	300
- First observation		14	14	14	14	14	14	14	14	14
- Last observation		313	313	313	313	313	313	313	313	313
Total number of fixed or estimated parameters:										
- Beta .Estimated		43	30	42	38	38	38	42	38	38
.Constant		1	1	1	1	1	1	1	1	1
- Lambda(y)										
.Fixed		0	0	0	0	0	0	0	0	0
.Estimated .Constrained		1	1	1	1	1	1	1	0	1
.Distinct		0	0	0	0	0	0	0	1	0
- Lambda(x)										
.Fixed		0	0	0	0	0	0	0	0	0
.Estimated		1	1	1	1	1	1	1	1	1
- Heteroskedasticity										
Delta										
.Fixed		0	0	0	0	0	0	0	0	0
.Estimated		0	0	0	0	0	0	0	0	0
Lambda(z)										
.Fixed		0	0	0	0	0	0	0	0	0
.Estimated		0	0	0	0	0	0	0	0	0
- Autocorrelation										
Rho .Estimated		2	6	9	11	9	12	9	3	8
- Total										
.Fixed		0	0	0	0	0	0	0	0	0
.Estimated		47	38	53	51	49	52	53	44	48
Mean of observed Y		0.50D+09	0.62D+08	0.92D+04	0.24D+04	0.11D+03	0.26D+04	0.12D+05	0.14D+01	0.50D-01
Standard error of observed Y		0.15D+09	0.40D+08	0.35D+04	0.94D+03	0.42D+02	0.97D+03	0.40D+04	0.65D-01	0.12D-01
Skewness of observed Y		-0.42D-01	0.36D+00	0.66D+00	0.47D+00	0.24D+00	0.44D+00	0.28D+00	0.31D+01	-0.47D-01
Mean of Y, estimated at the mean		0.49D+09	0.61D+08	0.90D+04	0.24D+04	0.99D+02	0.25D+04	0.12D+05	0.14D+01	0.49D-01
Standard error of Y, estimated at the mean		0.17D+08	0.74D+07	0.70D+03	0.17D+03	0.13D+02	0.18D+03	0.81D+03	0.44D-01	0.68D-02
Skewness of Y, estimated at the mean		0.24D-01	0.15D+00	0.19D+00	0.16D+00	0.29D+00	0.16D+00	0.16D+00	0.44D+00	0.16D+00
Mean of estimated E(Y)		0.50D+09	0.62D+08	0.92D+04	0.24D+04	0.11D+03	0.26D+04	0.12D+05	0.14D+01	0.50D-01
Standard error of estimated E(Y)		0.15D+09	0.39D+08	0.34D+04	0.91D+03	0.40D+02	0.95D+03	0.39D+04	0.41D-01	0.10D-01
Skewness of estimated E(Y)		-0.51D-01	0.34D+00	0.49D+00	0.39D+00	0.11D-01	0.37D+00	0.12D+00	0.46D+00	-0.36D+00
M.R.S. between Measures M1, M2 and M3										
M1 / M2		0.81D+02	0.19D+02	0.16D+02	0.19D+02	0.10D+02	0.18D+02	0.19D+02	0.68D+01	0.19D+02
M2 / M1		0.12D-01	0.52D-01	0.62D-01	0.53D-01	0.97D-01	0.55D-01	0.54D-01	0.15D+00	0.52D-01
M1 / M3		-0.10D+11	-0.67D+09	-0.25D+06	-0.53D+05	-0.13D+04	-0.65D+05	-0.31D+06	0.80D+00	-0.50D+00
M3 / M1		-0.10D-09	-0.15D-08	-0.41D-05	-0.19D-04	-0.79D-03	-0.15D-04	-0.32D-05	0.13D+01	-0.20D+01
M2 / M3		-0.12D+09	-0.35D+08	-0.15D+05	-0.28D+04	-0.12D+03	-0.36D+04	-0.17D+05	0.12D+00	-0.26D-01
M3 / M2		-0.81D-08	-0.29D-07	-0.65D-04	-0.35D-03	-0.81D-02	-0.28D-03	-0.60D-04	0.86D+01	-0.38D+02
Elasticity of substitution between M1, M2 and M3										
M1 / M2		0.29D+01	0.24D+01	0.12D+01	0.14D+01	0.14D+01	0.13D+01	0.13D+01	0.21D+00	0.27D+01
M2 / M1		0.35D+00	0.42D+00	0.81D+00	0.73D+00	0.73D+00	0.77D+00	0.78D+00	0.47D+01	0.38D+00
M1 / M3		-0.49D+00	-0.17D+01	-0.51D+01	-0.36D+01	-0.37D+01	-0.43D+01	-0.43D+01	0.25D+00	-0.16D+01
M3 / M1		-0.20D+01	-0.59D+00	-0.20D+00	-0.28D+00	-0.27D+00	-0.24D+00	-0.23D+00	0.40D+01	-0.63D+00
M2 / M3		-0.17D+00	-0.72D+00	-0.41D+01	-0.26D+01	-0.27D+01	-0.33D+01	-0.33D+01	0.12D+01	-0.59D+00
M3 / M2		-0.58D+01	-0.14D+01	-0.24D+00	-0.39D+00	-0.37D+00	-0.30D+00	-0.30D+00	0.85D+00	-0.17D+01

3. PROGRAM LISTINGS

3.1 Program LEVEL L-1.6

The program contains 31 modules listed below in alphabetical order:

ac.f	array.f	correl.f	cputime.f	derz1.f
draw.f	eigen.f	fcfn.f	gmadd.f	gmprd.f
gmsub.f	gtprd.f	invert.f	level1.f	loc.f
mata.f	mfstd.f	mincon.f	moment.f	mprd.f
mrs.f	ndtr.f	pdql.f	readvar.f	ser.f
sinv.f	transf.f	tvalue.f	vardec.f	vp.f
zlam.f				

It was compiled with Compaq Visual Fortran 6.6. The main module is *level1.f* which calls module *mincon.f* to find the maximum of the log-likelihood function. The function and its first derivatives with respect to the estimated parameters are computed in module *fcfn.f*. All the other modules used for matrix operations and different statistics computation are mainly called by this module.

Program Listing

```
c
c .....
c
      subroutine ac(z,y,x,nt,k,nm,nk,nl,nl1)
      implicit double precision (a-h,o-z)
      dimension z(nt),y(nt),x(nt),mp(10),q(4,4,106),phi(4,4,37)
      nl1=nl/12
      if(nl-12*nl1) 1003,1003,1002
1002  nl1=nl1+1
1003  mp(1)=-12
      if(nl1-2) 2004,2003,2003
      2003 do 1004 j=2,nl1
1004  mp(j)=mp(j-1)-12
      2004 call ser(0,0,nt,nl,nl1,z,wres,q,phi,nl1)
      mp(nl1)=-nl
      vres=wres
      if (nm) 1021,1021,1009
1009  sum1=0.
      do 1010 l=1,nt
1010  x(l)=z(l)
      do 1020 l=1,nm
      ny=nt-l
      tnz=ny
      do 1015 m=1,ny
1015  x(m)=x(m+1)-x(m)
      call ser(l,0,ny,nl,nl1,x,wres,q,phi,nl1)
1020  continue
1021  if (nk) 3000,3000,1022
1022  do 1025 l=1,nt
1025  x(l)=z(l)
      do 1035 l=1,nk
      ny=nt-k*l
      do 1030 m=1,ny
      mk = m + k
```

```

1030 x(m)=x(mk) -x(m)
      call ser(0,l,ny,nl,nll,x,wres,q,phi,nll)
1035 continue
      if (nm) 3000,3000,1040
1040 do 1070 l=1,nt
1070 x(l)=z(l)
      do 1060 m=1,nm
        nxm=nt-m
        do 1050 mi=1,nxm
1050 x(mi)=x(mi+1)-x(mi)
        do 1060 l=1,nk
          nxl=nxm-l*k
          do 1055 mi=1,nxl
            mik = mi + k
1055 y(mi)=x(mik) -x(mi)
            call ser(m,l,nxl,nl,nll,y,wres,q,phi,nll)
1060 continue
3000 continue
      print 41
      41 format (/,42x,'autocorrelation and partial autocorrelation functio
+ns')
3001 print 39, nt
      39 format(10x,2hn=,i4/)
      print 42
      42 format(/,'difference'12x,'lags',35x,'autocorrelations',38x,
1'std-error',/,118x,'row')
      nml=nm+1
      nk1=nk+1
      do 3010 j=1,nk1
        j1=j-1
        do 3010 m=1,nml
          m1=m-1
          print 61, m1,k,j1
1061 format(1h ,2(4x,i2),i2)
          print 43, mp(1), (q(m,j,1),l=2,13),q(m,j,99)
1043 format(14h (1-b) (1-b ),9x,1h1,i3,2x,12(2x,f5.2),5x,f4.2)
          if(nll.gt.1)go to 51
          print 62,q(m,j,98)
1062 format(6h var =,d13.4)
          go to 3010
1051 print 44,q(m,j,98),mp(2), (q(m,j,1),l=14,25),q(m,j,100)
1044 format(6h var =,d13.4,3x,2h13,i3,2x,12(2x,f5.2),5x,f4.2)
          if(nll.le.2)go to 3010
          do 3004 i=3,nll
            mp1=1-mp(i-1)
            mp2=mp1+1
            mp3=mp1+12
            mmm=98+i
3004 print 45, mp1,mp(i), (q(m,j,1),l=mp2,mp3),q(m,j,mmm)
      45 format(22x,i2,i3,2x,12(2x,f5.2),5x,f4.2)
3010 print 46
      46 format(3x)
      if(nll) 50,50,47
1047 print 48
      48 format(/,'difference'12x'lags',31x,'partial autocorrelations',
134x,'std-error',/,118x,'row')
      nll=nll/12
      if(nll.gt.12*nll)nll=nll+1
      do 3110 j=1,nk1
        j1=j-1

```

```

do 3110 m=1,nm1
m1=m-1
print 61,    m1,k,j1
print 43,      mp(1), (phi(m,j,1),l=1,12),phi(m,j,37)
if(nll.eq.1)go to 3110
do 3200 i=2,nll
mp1=1-mp(i-1)
mp2=mp1+11
3200 print 45,mp1,mp(i), (phi(m,j,1),l=mp1,mp2),phi(m,j,37)
3110 print 46
50 continue
print 46
return
end

```

```

c
c
c .....
c
c   subroutine array
c
c   purpose
c       convert data array from single to double dimension or vice
c       versa.  this subroutine is used to link the user program
c       which has double dimension arrays and the ssp subroutines
c       which operate on arrays of data in a vector fashion.
c
c   usage
c       call array (mode,i,j,n,m,s,d)
c
c   description of parameters
c       mode - code indicating type of conversion
c              1 - from single to double dimension
c              2 - from double to single dimension
c       i    - number of rows in actual data matrix
c       j    - number of columns in actual data matrix
c       n    - number of rows specified for the matrix d in
c              dimension statement
c       m    - number of columns specified for the matrix d in
c              dimension statement
c       s    - if mode=1, this vector is input which contains the
c              elements of a data matrix of size i by j. column i+1
c              of data matrix follows column i, etc. if mode=2,
c              this vector is output representing a data matrix of
c              size i by j containing its columns consecutively.
c              the length of s is ij, where ij=i*j.
c       d    - if mode=1, this matrix of size n by m is output,
c              containing a data matrix of size i by j in the first
c              i rows and j columns. if mode=2, this n by m matrix
c              is input containing a data matrix of size i by j in
c              the first i rows and j columns.
c
c   remarks
c       vector s can be in the same location as matrix d.  vector s
c       is referred as a matrix in other ssp routines, since it
c       contains a data matrix.
c       this subroutine converts only general data matrices (storage
c       mode of 0).
c
c   subroutines and function subroutines required
c       none

```



```

c
c      method
c      refer to the discussion on variable data size in the section
c      describing overall rules for usage in this manual.
c
c      .....
c
c      subroutine array (mode,i,j,n,m,s,d)
c      implicit double precision (a-h,o-z)
c      dimension s(1),d(1)
c
c      ni=n-i
c
c      test type of conversion
c
c      if(mode-1) 100, 100, 120
c
c      convert from single to double dimension
c
100  ij=i*j+1
      nm=n*j+1
      do 110 k=1,j
        nm=nm-ni
        do 110 l=1,i
          ij=ij-1
          nm=nm-1
110  d(nm)=s(ij)
      go to 140
c
c      convert from double to single dimension
c
120  ij=0
      nm=0
      do 130 k=1,j
        do 125 l=1,i
          ij=ij+1
          nm=nm+1
125  s(ij)=d(nm)
130  nm=nm+ni
c
140  return
      end
c
c      .....
c
c      subroutine correl(xss,xm,s,cor,titrex,titrey,nobs,nr,nb1,nbm,nxx,
c      +ncor)
c      Compute the correlation matrix of the dependent and independent
c      variables.
c      The correlation matrix is stored in a lower triangular form.
c      implicit double precision (a-h,o-z)
c      character*10 titrex(nbm),titrey
c      dimension xss(nobs,nbm),xm(nbm),s(nbm),cor(nxx)
c      ncol=12
c      ij=0
c      ir=0
c      do 1 j=1,nbm
c      do 1 i=1,j
c      ir=ir+1

```

```

      cor(ir)=-nr*xm(i)*xm(j)
      do 2 k=1,nr
2    cor(ir)=cor(ir)+xss(k,i)*xss(k,j)
      if(i.ne.j)go to 1
      ij=ij+1
      s(ij)=cor(ir)
1    continue
      ir=0
      do 3 j=1,nbm
      do 3 i=1,j
      ir=ir+1
      3 cor(ir)=cor(ir)/dsqrt(s(i)*s(j))
c March 20, 2001: always compute the correlation matrix COR even if ncor=0,
c so that the last line of the matrix, whose elements correspond to the
c correlations between Y (or YSS) and each of the variables X (or XSS),
c is available for program TABLEX.
      if(ncor.gt.0)then
        titrex(nb1)=titrey
        np=nb1/ncol
        if(nb1.gt.np*ncol)np=np+1
        do 5 i=1,np
        print 4
4      format(///,'correlation matrix'//)
        i1=1+(i-1)*ncol
        i2=i*ncol
        if(nb1.lt.i2)i2=nb1
        do 7 j=i1,nb1
        call loc(j,i1,j1,nb1,nb1,1)
        j2=(j*(j+1))/2
        if(j.gt.i2)call loc(j,i2,j2,nb1,nb1,1)
7      print 6,titrex(j),(cor(k),k=j1,j2)
6      format(/a8,12f10.4)
5      print 8,(titrex(k),k=i1,i2)
8      format(/12x,12a10)
        titrex(nb1)='constant'
      endif
      return
      end

      subroutine cputime(ntime)

      real t1,delta
      integer ntime,ifix,hour,minute,second
      if(ntime.eq.1)then
c First call to secnds for computing CPU TIME
        t1=secnds(0.0)
      else
c Compute CPU time at the end of the run
        delta=secnds(t1)
        if(delta.lt.60.)then
50      write(6,50)delta
          format(//,'CPU TIME:',f10.2,' sec')
        elseif(delta.lt.3600)then
          minute=ifix(delta/60)
          second=ifix(delta-60*minute)
          write(6,51)minute,second
51      format(//,'CPU TIME:',i3,' min',i3,' sec')
        else
          hour=ifix(delta/3600)
          minute=ifix((delta-3600*hour)/60)

```

```

        second=ifix(delta-3600*hour-60*minute)
        write(6,52)hour,minute,second
52      format(//,'CPU TIME:',i3,' h',i3,' min',i3,' sec')
      endif
    endif
    return
  end

c
c .....
c
  double precision function derzl(z,vl)
c compute the derivative of the box-cox transformation
c z(lambda) with respect to lambda.
  implicit double precision (a-h,o-z)
  derzl=0.
  if(z.eq.0.)return
  if(dabs(vl).ge.1.d-4)go to 1
  derzl=0.5*dlog(z)**2
  return
1 derzl=((z**vl)*dlog(z)-zlam(z,vl))/vl
  return
  end

c
c .....
c
  subroutine draw(x,u,sig,titrex,n)
  implicit double precision (a-h,o-z)
  character*1 ns(10),np(51,61)
  character*10 titrex
  dimension x(n),u(n),ngx(7),gy(6)
  common/block1/nc,nf,nfp,nobel,nm
  data ngx/-6,-4,-2,0,2,4,6/
  data ns/1h1,1h2,1h3,1h4,1h5,1h6,1h7,1h8,1h9,1h*/
  do 1 i=1,51
  do 1 j=1,61
1 np(i,j)=' '
  do 2 i=1,51
  np(i,1)='.'
  np(i,21)='.'
  np(i,41)='.'
  np(i,61)='.'
  if(mod(i-1,10).ne.0)go to 2
  np(i,1)='+'
  np(i,61)='+'
  2 continue
  print 100,titrex
100 format(///4x,a8/)
  print 101,ngx
101 format(4x,7i10/)
  print 110
110 format(13x,6(1h+,9(1h.)),1h+)
  xmax=-1.d100
  xmin=-xmax
  do 20 i=nc,nf
  if(x(i).gt.xmax)xmax=x(i)
  20 if(x(i).lt.xmin)xmin=x(i)
  xg=xmin
  rx=xmax-xmin

```

```

dx=rx/5
do 3 i=1,6
gy(i)=xg
3 xg=xg+dx
do 4 i=nc,nf
su=u(i)/sig
ip=1+idint(50*(x(i)-xmin)/rx+0.5)
if(su.gt.0.)shift=0.5
if(su.lt.0.)shift=-0.5
jp=31+idint(30*su/6+shift)
if(jp.lt.1)jp=1
if(jp.gt.61)jp=61
do 5 k=1,10
if(np(ip,jp).eq.ns(k))go to 6
5 continue
np(ip,jp)='1'
go to 4
6 if(k.eq.10)go to 4
np(ip,jp)=ns(k+1)
4 continue
k=0
do 7 i=1,51
if(mod(i-1,10).ne.0)go to 8
k=k+1
print 102,gy(k),(np(i,j),j=1,61)
102 format(1x,d10.4,2x,61a1)
go to 7
8 print 103,(np(i,j),j=1,61)
103 format(13x,61a1)
7 continue
print 110
print 104,ngx
104 format(/4x,7i10)
print 105
105 format(/33x,'Standardized residual')
return
end

```

c
c
c

```

.....
subroutine eigen(a,r,n,mv)
implicit double precision (a-h,o-z)
dimension a(1),r(1)
if(mv-1)10,25,10
10 iq=-n
do 20 j=1,n
iq=iq+n
do 20 i=1,n
ij=iq+i
r(ij)=0.
if(i-j)20,15,20
15 r(ij)=1.
20 continue
25 anorm=0.
do 35 i=1,n
do 35 j=i,n
if(i-j)30,35,30
30 ia=i+(j*j-j)/2
anorm=anorm+a(ia)*a(ia)

```

```

35 continue
   if (anorm) 165,165,40
40 anorm=dsqrt(2*anorm)
   anrmx=anorm*1.d-6/dfloat(n)
   ind=0
   thr=anorm
45 thr=thr/dfloat(n)
50 l=1
55 m=l+1
60 mq=(m*m-m)/2
   lq=(l*l-l)/2
   lm=l+mq
62 if(dabs(a(lm))-thr) 130,65,65
65 ind=1
   ll=l+lq
   mm=m+mq
   x=0.5*(a(ll)-a(mm))
68 y=-a(lm)/dsqrt(a(lm)*a(lm)+x*x)
   if(x) 70,75,75
70 y=-y
75 sinx=y/dsqrt(2*(1+(dsqrt(1-y*y))))
   sinx2=sinx*sinx
78 cosx=dsqrt(1-sinx2)
   cosx2=cosx*cosx
   sincs=sinx*cosx
   ilq=n*(l-1)
   imq=n*(m-1)
   do 125 i=1,n
     iq=(i*i-i)/2
     if(i-1) 80,115,80
80 if(i-m) 85,115,90
85 im=i+mq
   go to 95
90 im=m+iq
95 if(i-1) 100,105,105
100 il=i+lq
   go to 110
105 il=l+iq
110 x=a(il)*cosx-a(im)*sinx
   a(im)=a(il)*sinx+a(im)*cosx
   a(il)=x
115 if(mv-1) 120,125,120
120 ilr=ilq+i
   imr=imq+i
   x=r(ilr)*cosx-r(imr)*sinx
   r(imr)=r(ilr)*sinx+r(imr)*cosx
   r(ilr)=x
125 continue
   x=2*a(lm)*sincs
   y=a(ll)*cosx2+a(mm)*sinx2-x
   x=a(ll)*sinx2+a(mm)*cosx2+x
   a(lm)=(a(ll)-a(mm))*sincs+a(lm)*(cosx2-sinx2)
   a(ll)=y
   a(mm)=x
130 if(m-n) 135,140,135
135 m=m+1
   go to 60
140 if(l-(n-1)) 145,150,145
145 l=l+1
   go to 55

```

```

150 if(ind-1)160,155,160
155 ind=0
    go to 50
160 if(thr-anrmx)165,165,45
165 iq=-n
    do 185 i=1,n
        iq=iq+n
        ll=i+(i*i-i)/2
        jq=n*(i-2)
        do 185 j=i,n
            jq=jq+n
            mm=j+(j*j-j)/2
            if(a(mm)-a(ll))170,185,185
170 x=a(ll)
        a(ll)=a(mm)
        a(mm)=x
        if(mv-1)175,185,175
175 do 180 k=1,n
        ilr=iq+k
        imr=jq+k
        x=r(ilr)
        r(ilr)=r(imr)
180 r(imr)=x
185 continue
    return
end

c
c .....
c
    subroutine fcn(npar,g,f,par,iflag,vlxf,vlxv,ro,sqfml,roux,roudx,
+ym1,xm1,d,vle,b,xy,xmean,x,xss,xm,scalx,xmin,xmax,yexp,y,yss,uss,
+est,rfxt,srys,u,xx,cov,cond,els,el,elsty,dery,derey,grad,dt,duss,
+dlfxt,s21,c21,
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,np1,nbp,np2,ncc,maxf,maxv,nobqm)
    implicit double precision (a-h,o-z)
    dimension g(npar),par(npar)
    dimension vlxf(ngfd),vlxv(ngvd)
    dimension ro(nrod),sqfml(nrod),roux(nrod),roudx(nrod)
    dimension yml(nrod),xm1(nrod,nbm),d(ndd),vle(ndd)
    dimension b(nbm),xy(nbm),xmean(nbm),x(nobs,nbm),xss(nobs,nbm)
    dimension xm(nbm,2),scalx(nbm),xmin(nbm),xmax(nbm),yexp(nobs)
    dimension y(nobs),yss(nobs),uss(nobs),est(nobqm),rfxt(nobs)
    dimension srys(nobs),u(nobs,3)
    dimension xx(nxx),cov(ncc),cond(nbp),els(nb1,2),el(nb1,2)
    dimension grad(np1),dt(np1),duss(np1),dlfxt(np1),s21(np2),c21(np2)
    dimension elsty(nb1,2),dery(nb1,2),derey(nb1,2),dersigma(100,2)
    dimension elgamma(100,2),dergamma(100,2),deresa(100,3)
    dimension deyt(100),eleyt(100),dsigmat(100),elsigmat(100)
    dimension dgammat(100),elgammat(100),coryx(100,2),coryz(100,2)
    dimension deryz(10,2),dereyz(10,2),dersigz(10,2),dergamz(10,2)
    dimension elsz(10,2),elz(10,2),elstyz(10,2),elgamz(10,2)
    dimension derey2z(10,2),derey3z(10,2)

c
c the dimensions of numx and numg are limited for 10 variables.
c the dimension of numsl is limited for 50 variables.
c see definitions of numx, numg and numsl in the user's manual.
    dimension numx(10),numg(10),numsl(50)
c

```

```

c   change the dimensions of the following variables according to:
c       nxf(ngfd), numxf(ngfd,maxf), nxv(ngvd,maxv),
c       l(nrod), nid(nbm), num(nobs), ngr(nb1), kon(np1)
c       ntf(nb1), titrex(nbm)
c       dimension nxf(10), numxf(10,50), nxv(10), numxv(10,50)
c       dimension l(20), nid(50), num(10000), ngr(50), kon(100)
c       character*2 ntf(50)
c       character*10 titrex(100), titrez(10)
c
c   the following dimensions are not dependent on the number of observations
c   or parameters :
c       character*1 blan(29,3), blank(37)
c       character*2 ntype(2), namp(2)
c       character*3 varnum
c       character*8 ntw(2)
c       character*9 varname
c       character*10 titrey, titx(2), tity(2)
c       character*30 ElastFile
c       dimension ym(2), eym(2), ey2m(2), ey3m(2), varym(2), stdym(2), gamma(2)
c       dimension tt(32), wt(32), umax(3), umean(3)
c       dimension ymom(3), esa(3), eymom(3)
c
c       common/block1/nc,nf,nfp,nobel,nm
c       common/block2/nb,nro,ns1,ngf,ngv,nly,ndm,nle,nd
c       common/block3/ncor,nres,npw,nguvw, npdql,ncov,ney,nvariant,varname
c       data eps/1.d-14/
c       data kon/100*0/
c       data ntw/8hquarters,6hmonths/
c       data sq2pi/2.5066282746310d0/
c       data pi/3.1415926535898d0/
c       data (tt(i),i=17,32)/.48307665687738d-1,.14447196158280d0,
c       +.23928736225214d0,.33186860228213d0,.42135127613064d0,
c       +.50689990893223d0,.58771575724076d0,.66304426693022d0,
c       +.73218211874029d0,.79448379596794d0,.84936761373257d0,
c       +.89632115576605d0,.93490607593774d0,.96476225558751d0,
c       +.98561151154527d0,.99726386184948d0/
c       data (wt(i),i=17,32)/.96540088514728d-1,.95638720079275d-1,
c       +.93844399080805d-1,.91173878695764d-1,.87652093004404d-1,
c       +.83311924226947d-1,.78193895787070d-1,.72345794108849d-1,
c       +.65822222776362d-1,.58684093478536d-1,.50998059262376d-1,
c       +.42835898022227d-1,.34273862913021d-1,.25392065309262d-1,
c       +.16274394730906d-1,.70186100094701d-2/
c       if(iflag.gt.1)go to 124
c       do 1 i=1,16
c           j=33-i
c           tt(i)=-tt(j)
c       1 wt(i)=wt(j)
c
c   read data (here we use the so-called list directed input/output:
c   read* and print*. it can be changed into formatted input/output
c   for compatibility with other computer systems.)
c
c   when there is a problem of convergence, another set of initial parameter
c   values can be selected for the run.
c
c   some suggested trial values:
c       - for autoregressive parameters: ro(i)=0.
c       - for power transformation parameters:
c           lambdas(x)=lambda(y)=1. (linear case),
c           lambdas(x)=lambda(y)=0. (log-linear case);

```

```

c      - for coefficients (deltas) and power transformation parameters
c      in the functional form of heteroskedasticity:
c      deltas=0., lambdas(z)=1.
c      deltas=2., lambdas(z)=0.
c
      nf1=nf+1
      nv=ns1
      nr=nf-nc+1
      np=nb1+npar
      jpc=nb1+nro
      npc=jpc
      ncl=nc
      if(nobel.le.0)nobel=1
      ncs=nf+1-nobel
      do 2 i=1,nbm
          nid(i)=0
2  xmean(i)=0.
      do 3 i=1,ncc
3  cov(i)=0.
      if(nro.eq.0)go to 4
      print 1000
      read*,(l(i),i=1,nro),(ro(i),i=1,nro)
      print*, 'autocorrelation of orders:',(l(i),i=1,nro)
      print*, 'rho initial values:',(ro(i),i=1,nro)
      ncl=nc-l(nro)
4  if(nsl.eq.0)go to 6
      do 5 i=1,nsl
          numsl(i)=i
          ntf(i)='NL'
5  ngr(i)=0
      print 1000
      print*, 'group (x) without box-cox transformation'
      print 1001,(numsl(i),i=1,nsl)
1001 format(1x,'variable no. '/(20i4))
      6 if(ngf.eq.0)go to 9
      read*,(vlxf(i),i=1,ngf),(nxf(i),i=1,ngf)
      do 8 i=1,ngf
          nxfi=nxf(i)
          do 7 j=1,nxfi
              nv=nv+1
              numxf(i,j)=nv
              ntf(nv)='FL'
7          ngr(nv)=i
              print 1000
              print*, 'group',i, '(fixed lambda(x)) '
              print*, 'fixed value:',vlxf(i)
              print 1001,(numxf(i,j),j=1,nxfi)
8          continue
      9 if(ngv.eq.0)go to 12
      read*,(vlxv(i),i=1,ngv),(nxv(i),i=1,ngv)
      do 11 i=1,ngv
          jpc=jpc+1
          kon(jpc)=1
          nxvi=nxv(i)
          do 10 j=1,nxvi
              nv=nv+1
              numxv(i,j)=nv
              ntf(nv)='EL'
10          ngr(nv)=i
              print 1000

```



```

        print*, 'group', i, ' (estimated lambda(x)) '
        print*, 'initial value:', vlxv(i)
        print 1001, (numxv(i,j), j=1, nxvi)
11 continue
12 if(nly.eq.2)go to 14
    uly=0.
    if(nly.lt.0)go to 15
    ngxv=0
    read*, vly, uly
    print 1000
    if(nly.eq.1)go to 13
    print*, 'lambda(y) fixed value:', vly
    print*, 'upper limit for y ', uly
    go to 15
13 print*, 'lambda(y) initial value:', vly
    print*, 'upper limit for y ', uly
    jpc=jpc+1
    kon(jpc)=1
    go to 15
14 read*, ngxv, uly
    vly=vlxv(ngxv)
    print 1000
    print*, 'lambda(y) is set equal to lambda(x) of group no. ', ngxv
    print*, 'lambda(y) initial value:', vly
    print*, 'upper limit for y ', uly
15 continue
    if(ndm.ne.-1)then
        print 1000
        read*, (d(i), i=1, nd), (vle(i), i=1, nd), (numx(i), i=1, nd)
    endif
    npc=npc+1
    if(nguvw.ne.0)read*, (numg(i), i=1, nguvw)
    if(npw.ne.0)read*, nqm, nyear
    if(npdql.ne.0)read*, ndiff, ndlsea, lnper, nlag, nlagp
c
c  read the dependent and independent variables
    call readvar(titrey, y, titrex, x, nobs, nbm, nb, nm, yexp)
    ntf(nb1)='NL'
    ngr(nb1)=0

    if(ndm.ne.-1)then
        print*, 'Heteroscedasticity'
        do 20 i=1, nd
            j=numx(i)
            titrez(i)=titrex(j)
20    continue
        print*, 'variables: ', (titrez(j), j=1, nd)
        if(ndm.eq.1)go to 16
        nle=0
        print*, 'delta fixed values:', (d(i), i=1, nd)
        go to 18
16    print*, 'delta initial values:', (d(i), i=1, nd)
        do 17 i=1, nd
            jpc=jpc+1
            npc=npc+1
17    if(nle.eq.1)go to 19
        print*, 'lambda(z) fixed values:', (vle(i), i=1, nd)
        go to 21
19    print*, 'lambda(z) initial values:', (vle(i), i=1, nd)
        do 1900 i=1, nd

```

```

        jpc=jpc+1
        kon(jpc)=1
1900      continue
        21      continue
      endif
c
c  compute sample means of y and x in original units for t=1,...,nobs.
      nscale=0
      clik=nr*(1+dlog(2*pi))/2
      jl=nro+1
      sqfxt=1.
      titrex(nb1)='constant'
      id=0
      ymean=0.
      do 23 i=1,nobs
23  x(i,nb1)=1.
      ymin=1.d300
      ymax=-ymin
      do 24 j=1,nbm
        xmin(j)=1.d300
24  xmax(j)=-xmin(j)
      do 26 i=1,nobs
        if(y(i).eq.0.)id=id+1
        ymean=ymean+y(i)
        if(y(i).gt.ymax)ymax=y(i)
        if(y(i).lt.ymin)ymin=y(i)
        do 25 j=1,nbm
          if(x(i,j).eq.0.)nid(j)=nid(j)+1
          xmean(j)=xmean(j)+x(i,j)
          if(x(i,j).gt.xmax(j))xmax(j)=x(i,j)
          if(x(i,j).lt.xmin(j))xmin(j)=x(i,j)
25      continue
26  continue
      print 1010
      ymean=ymean/nobs
      vmax=dmax1(dabs(ymin),dabs(ymax))
      scaly=10.**idint(dlog10(vmax))
      print 1020,titre,y,ymin,ymean,ymax,id
      do 27 j=1,nbm
        xmean(j)=xmean(j)/nobs
        vmax=dmax1(dabs(xmin(j)),dabs(xmax(j)))
        scalx(j)=10.**idint(dlog10(vmax))
        print 1030,j,titre(j),xmin(j),xmean(j),xmax(j),nid(j)
27  continue

c
c  compute sample means of y and x in original units for t=nc,nf and for
c  the last nobel observations.
      ym(1)=0.
      ym(2)=0.
      do 115 i=nc,nf
        if(i.ge.ncs)ym(2)=ym(2)+y(i)/nobel
115  ym(1)=ym(1)+y(i)/nr
      if(ym(1).eq.0.)print 1100,titre
      do 116 j=1,nbm
        xm(j,1)=0.
        xm(j,2)=0.
        do 116 i=nc,nf
          if(i.ge.ncs)xm(j,2)=xm(j,2)+x(i,j)/nobel

```

```

116 xm(j,1)=xm(j,1)+x(i,j)/nr
    nzer=0
    do 117 j=1,nbm
        if(xm(j,1).ne.0.)go to 117
        nzer=nzer+1
        print 1110,titrex(j)
117 continue
    if(ym(1).eq.0..or.nzer.ne.0)stop
    ymax=0.
    sdy=0.
    sly=0.
    do 118 i=nc,nf
        if(y(i).gt.ymax)ymax=y(i)
        if(nly.ge.0)sly=sly+dlog(y(i))
118 sdy=sdy+(y(i)-ym(1))**2
    do 119 j=1,nbm
        xmean(j)=xm(j,1)
    do 119 i=nc,nf
        it=i-nc+1
119 xss(it,j)=x(i,j)
    if(ncor.eq.2)call vardec(xss,xx,titrex,nobs,nr,nb1,nxx)
    do 120 i=nc,nf
        it=i-nc+1
120 xss(it,nb1)=y(i)
    xmean(nb1)=ym(1)
c First call to CORREL: correlations among the original variables X and Y.
    call correl(xss,xmean,xy,xx,titrex,titrey,nobs,nr,nb1,nbm,nxx,
+ncor)
    do 30 i=1,nb
        call loc(nb1,i,ir,nbm,nbm,1)
    30 coryx(i,1)=xx(ir)
c By definition, the correlation between the variable Y and
c the regression constant is null.
    coryx(nb1,1)=0.d0
c Case where Z_m is not an X_k
    if(nm.gt.0)then
        do 32 i=1,nm
            call loc(nb1,nb1+i,ir,nbm,nbm,1)
            coryz(i,1)=xx(ir)
    32 continue
    endif
    call transf(par,ro,vlxv,vly,d,vle,1,ngxy,ier)
c
c scaling of y and x when iflag=1
    if(nscale.eq.0)go to 124
121 nscale=1
    if(nly.ge.0)sly=sly-nr*dlog(scaly)
    do 122 i=1,nobs
        y(i)=y(i)/scaly
    do 122 j=1,nbm
122 x(i,j)=x(i,j)/scalx(j)
    if(ndm.eq.-1)go to 124
    do 123 j=1,nd
        nx=numx(j)
123 d(j)=d(j)*(scalx(nx)**vle(j))
124 if(iflag.ne.1)call transf(par,ro,vlxv,vly,d,vle,2,ngxy,ier)
    if(ier.ne.0)go to 320
c
c transform y and x back to the original units when iflag.eq.3 .
    if(iflag.ne.3)go to 127

```

```

        nscale=0
        if(nly.ge.0) sly=sly+nr*dlog(scaly)
        do 125 i=1,nobs
            y(i)=y(i)*scaly
            do 125 j=1,nbm
125      x(i,j)=x(i,j)*scalx(j)
            if(ndm.eq.-1)go to 127
            do 126 j=1,nd
                nx=numx(j)
126      d(j)=d(j)/(scalx(nx)**vle(j))
127      continue
c
c      compute the log-likelihood function concentrated on betas (b)
c      and sigma**2 (s)
        slfx=0.
        do 135 i=nc1,nf
            srys(i)=0.
            if(ndm.eq.-1)go to 129
            sdx=0.
            do 128 j2=1,nd
                nx=numx(j2)
128      sdx=sdx+d(j2)*zlam(x(i,nx),vle(j2))
            if(dabs(sdx).gt.650.)go to 320
            alnfxt=sdx
            sqfxt=dexp(sdx/2)
            if(i.ge.nc) slfx=slfx+alnfxt
129      continue
            rfxt(i)=sqfxt
            yss(i)=y(i)/sqfxt
            if(nly.ge.0) yss(i)=zlam(y(i),vly)/sqfxt
            xss(i,nb1)=1/sqfxt
            if(nsl.eq.0)go to 131
            do 130 j2=1,nsl
                nslj=numsl(j2)
                xss(i,nslj)=x(i,nslj)/sqfxt
130      continue
131      if(ngf.eq.0)go to 133
            do 132 j2=1,ngf
                nfj=nxf(j2)
                do 132 j3=1,nfj
                    nx=numxf(j2,j3)
                    xss(i,nx)=zlam(x(i,nx),vlxf(j2))/sqfxt
132      continue
133      if(ngv.eq.0)go to 135
            do 134 j2=1,ngv
                nvj=nxv(j2)
                do 134 j3=1,nvj
                    nx=numxv(j2,j3)
                    xss(i,nx)=zlam(x(i,nx),vlxv(j2))/sqfxt
134      continue
135      continue
            if(nro.eq.0)go to 140
            do 139 i=nc,nf
                it=i-nc+1
                ys=0.
                do 136 j=1,nro
                    il=i-1(j)
136      ys=ys+ro(j)*yss(il)
                yss(it)=yss(i)-ys
                srys(i)=ys

```

```

        do 138 k=1,nb1
            xs=0.
            do 137 j=1,nro
                il=i-1(j)
137         xs=xs+ro(j)*xss(il,k)
138         xss(it,k)=xss(i,k)-xs
139 continue
        go to 142
140 do 141 i=nc,nf
            it=i-nc+1
            yss(it)=yss(i)
            do 141 k=1,nb1
141         xss(it,k)=xss(i,k)
142 continue
c
c   compute betas (b) and sigma**2 (s)
        call array(2,nr,nb1,nobs,nbm,xss,xss)
        call mata(xss,xx,nr,nb1,0)
        call sinv(xx,nb1,eps,ier)
        if(ier.ne.0)print*,'..matrix xx not invertible..'
        if(ier.ne.0.and.iflag.eq.1)stop
        if(ier.ne.0)go to 320
        call gtprd(xss,yss,xy,nr,nb1,1)
        call mprd(xx,xy,b,nb1,nb1,1,0,1)
        call gmprd(xss,b,uss,nr,nb1,1)
        call gmsub(yss,uss,uss,nr,1)
        call mata(uss,s,nr,1,0)
        s=s/nr
        f=clik+nr*dlog(s)/2
        if(nly.ge.0)f=f-(vly-1)*sly
        if(ndm.ge.0)f=f+s1fx/2
        if(iflag.eq.4)return
        call array(1,nr,nb1,nobs,nbm,xss,xss)
        if(iflag.eq.2)go to 221
        if(nscale.eq.1)go to 221
c
c   compute elasticities (els) and derivatives (dery) of y with respect to x,
        sigs=dsqrt(s)
        ss=sq2pi*sigs
        if(nly.ge.0)avly=dabs(vly)
        do 144 j=1,nb1
            if(ngr(j).eq.0)go to 144
c   for a quasi-dummy transformed by box-cox, its sample mean is recomputed
c   with the null observations replaced by those with a value of 1.
            xm(j,1)=0.
            xm(j,2)=0.
            do 143 i=nc,nf
                xij=x(i,j)
                if(xij.eq.0.)xij=1.
                xm(j,1)=xm(j,1)+xij/nr
                if(i.ge.ncs)xm(j,2)=xm(j,2)+xij/nobel
143         continue
144 continue
c   jj=1 : at the sample means of x for estimation period (nc,nf)
c   jj=2 : at the sample means of x for last subperiod (ncs,nf)
        do 197 jj=1,2
            bu=5*sigs
            bl=-bu
            ymly=ym(jj)
            ymly1=1.

```

```

        if(nly.ge.0)then
            ymly=ym(jj)**vly
            ymly1=ym(jj)**(vly-1)
        endif
        dery(nb1,jj)=b(nb1)/ymly1
        els(nb1,jj)=b(nb1)/ymly
        if(ndm.eq.-1)go to 151
        smx=b(nb1)
        if(nsl.eq.0)go to 146
c Group of variables without Box-Cox
        do 145 j=1,nsl
            nslj=numsl(j)
145      smx=smx+b(nslj)*xm(nslj,jj)
146      if(ngf.eq.0)go to 148
c Groups of variables with fixed Box-Cox
        do 147 j1=1,ngf
            nfj=nxf(j1)
            do 147 j2=1,nfj
                nx=numxf(j1,j2)
147      smx=smx+b(nx)*zlam(xm(nx,jj),vlxf(j1))
148      if(ngv.eq.0)go to 150
c Groups of variables with estimated Box-Cox
        do 149 j1=1,ngv
            nvj=nxv(j1)
            do 149 j2=1,nvj
                nx=numxv(j1,j2)
149      smx=smx+b(nx)*zlam(xm(nx,jj),vlxv(j1))
150      sm=ym(jj)-smx
            if(nly.ge.0) sm=zlam(ym(jj),vly)-smx
c October 11, 2005
c Heteroskedasticity: Z_m appearing only in f(Z)
        do 1501 j3=1,nd
            nz=numx(j3)
            dzvlz=0.5*d(j3)*(xm(nz,jj)**(vle(j3)-1))*sm
            deryz(j3,jj)=dzvlz/ymly1
            elsz(j3,jj)=dzvlz*xm(nz,jj)/ymly
1501      continue

151      if(nsl.eq.0)go to 155
c Group of variables without Box-Cox
        do 154 j=1,nsl
            nslj=numsl(j)
            els(nslj,jj)=b(nslj)
            if(ndm.eq.-1)go to 153
c Heteroskedasticity
        do 152 j3=1,nd
152      if(nslj.eq.numx(j3))els(nslj,jj)=els(nslj,jj)+d(j3)*(xm
+      (nslj,jj)**(vle(j3)-1))*sm/2
153      continue
            dery(nslj,jj)=els(nslj,jj)/ymly1
154      els(nslj,jj)=(els(nslj,jj)*xm(nslj,jj))/ymly
155      if(ngf.eq.0)go to 159
c Groups of variables with fixed Box-Cox
        do 158 j1=1,ngf
            nfj=nxf(j1)
            do 158 j2=1,nfj
                nx=numxf(j1,j2)
                els(nx,jj)=0.
                if(xm(nx,jj).ne.0.)els(nx,jj)=b(nx)*xm(nx,jj)**(vlxf(j1)

```

```

+      -1)
      if(ndm.eq.-1)go to 157
      do 156 j3=1,nd
        if(nx.eq.numx(j3))then
          els(nx,jj)=els(nx,jj)+d(j3)*(xm(nx,jj)
+          ** (vle(j3)-1))*sm/2
        endif
156      continue
157      dery(nx,jj)=els(nx,jj)/ymly1
158      els(nx,jj)=els(nx,jj)*xm(nx,jj)/ymly
159      if(ngv.eq.0)go to 163
c Groups of variables with estimated Box-Cox
      do 162 j1=1,ngv
        nvj=nxv(j1)
        do 162 j2=1,nvj
          nx=numxv(j1,j2)
          els(nx,jj)=0.
          if(xm(nx,jj).ne.0.)els(nx,jj)=b(nx)*xm(nx,jj)**(vlxv(j1)
+          -1)
          if(ndm.eq.-1)go to 161
          do 160 j3=1,nd
            if(nx.eq.numx(j3))then
              els(nx,jj)=els(nx,jj)+d(j3)*(xm(nx,jj)
+              ** (vle(j3)-1))*sm/2
            endif
160      continue
161      dery(nx,jj)=els(nx,jj)/ymly1
162      els(nx,jj)=els(nx,jj)*xm(nx,jj)/ymly
163      if(nly.lt.0)go to 195
      if(nro.eq.0)go to 167
c Autocorrelation
      do 164 j1=1,nro
        yml(j1)=0.
        do 164 j2=1,nbm
164      xml(j1,j2)=0.
        nob=nr
        nco=nc
        if(jj.eq.1)go to 165
        nob=nobel
        nco=ncs
165      continue
        do 166 i=nco,nf
          do 166 j1=1,nro
            il=i-1(j1)
            yml(j1)=yml(j1)+y(il)/nob
            do 166 j2=1,nbm
              xij=x(il,j2)
              if(j2.gt.nb1)go to 166
              if(ngr(j2).eq.0)go to 166
c For a quasi-dummy transformed by box-cox, the sample mean of the lagged
c variable is recomputed with the null observations replaced by those with
c a value of 1.
              if(xij.eq.0.)xij=1.
166      xml(j1,j2)=xml(j1,j2)+xij/nob
167      continue
            sqfm=0.
            if(nro.eq.0)go to 169
            do 168 j1=1,nro
168      sqfml(j1)=0.
169      continue

```

```

        if(ndm.eq.-1)go to 172
c Heteroskedasticity
        do 171 j2=1,nd
            nx=numx(j2)
            sqfm=sqfm+d(j2)*zlam(xm(nx,jj),vle(j2))
            if(nro.eq.0)go to 171
            do 170 j1=1,nro
170         sqfml(j1)=sqfml(j1)+d(j2)*zlam(xml(j1,nx),vle(j2))
171         continue
172         continue
            sqfm=dexp(sqfm/2)
            sxb=b(nb1)/sqfm
            if(nro.eq.0)go to 176
c Autocorrelation
            do 175 j1=1,nro
                sqfml(j1)=dexp(sqfml(j1)/2)
                if(nly.lt.0)sxb=sxb+ro(j1)*(yml(j1)-b(nb1))/sqfml(j1)
175         if(nly.ge.0)sxb=sxb+ro(j1)*(zlam(yml(j1),vly)-b(nb1))/sqfml(j1)
176         continue
                do 185 j2=1,j1
                    j1=j2-1
                    if(nsl.eq.0)go to 179
c Group of variables without Box-Cox
                do 178 j3=1,nsl
                    nslj=numsl(j3)
                    if(j1.gt.0)go to 177
                    sxb=sxb+b(nslj)*xm(nslj,jj)/sqfm
                    go to 178
177         sxb=sxb-b(nslj)*ro(j1)*xml(j1,nslj)/sqfml(j1)
178         continue
179         if(ngf.eq.0)go to 182
c Groups of variables with fixed Box-Cox
                do 181 j3=1,ngf
                    nfj=nxf(j3)
                    do 181 j4=1,nfj
                        nx=numxf(j3,j4)
                        if(j1.gt.0)go to 180
                        sxb=sxb+b(nx)*zlam(xm(nx,jj),vlxf(j3))/sqfm
                        go to 181
180         sxb=sxb-b(nx)*ro(j1)*zlam(xml(j1,nx),vlxf(j3))/sqfml
+           (j1)
181         continue
182         if(ngv.eq.0)go to 185
c Groups of variables with estimated Box-Cox
                do 184 j3=1,ngv
                    nvj=nxv(j3)
                    do 184 j4=1,nvj
                        nx=numxv(j3,j4)
                        if(j1.gt.0)go to 183
                        sxb=sxb+b(nx)*zlam(xm(nx,jj),vlxv(j3))/sqfm
                        go to 184
183         sxb=sxb-b(nx)*ro(j1)*zlam(xml(j1,nx),vlxv(j3))/sqfml
+           (j1)
184         continue
185         continue

c Elasticity of E(y) : el(i,j)
c Elasticity of standard error of y : elsty(i,j)

        if(avly.lt.1.e-4)go to 188

```



```

c   Case: vly .ne. 0.
      uvly=1/vly
      if(vly.gt.0.)go to 187
c   Case: vly < 0.
      if(uly.ne.0.)go to 186
c   compute upper limit of y (uly)if vly < 0
c   and if the initial value of (uly) chosen by the user is 0.
      ul1=1.d300
      sily=-.8*sigs*vly
      if(uvly*dlog10(sily).lt.300.)ul1=sily**uvly
      ul2=ymax+10*dsqrt(sdy/(nr-1))
      uly=dmin1(ul1,ul2)
c   end of computation for upper limit of y

186    bw=(uly**vly-1)/(vly*sqfm)-sxb
      if(bw.lt.bu)bu=bw
      bus=bu/sigs
      call ndtr(bus,p,dens)
      ulylp=uly*(1-p)
      go to 188
187    bw=-1/(vly*sqfm)-sxb
      if(bw.gt.bl)bl=bw

188    continue
      rj=(bu-bl)/2
      ct=(bu+bl)/2
      eym(jj)=0.
      ey2m(jj)=0.
      ey3m(jj)=0.
      sylphi=0.
      sylphih=0.
      sy2phi=0.
      sy2phih=0.
      sy3phi=0.
      sy3phih=0.

c   At the sample means:
c   Compute the Expected value of y      (E(y)=eym),
c   the Expected value of y**2 (E(y**2)=ey2m)
c   and the Expected value of y**3 (E(y**3)=ey3m).
c   Compute the different integrals involved in the elasticity of E(y)
c   the elasticity of the standard error of y and the elasticity of the
c   skewness of y, using the Gauss-Legendre 32-point quadrature.

      do 189 j=1,32
        w=rj*tt(j)+ct
        ww=sqfm*(sxb+w)
        fct=dexp(-0.5*w*w/s)*wt(j)*rj/ss
c   Case: lambda(y) .ne. 0.
      if(avly.ge.1.e-4)then
        yt=(1+vly*ww)**uvly
        y1phi=(yt**(1-vly))*fct
        eym(jj)=eym(jj)+yt*fct
        y2phi=(yt**(2-vly))*fct
        ey2m(jj)=ey2m(jj)+yt*yt*fct
        y3phi=(yt**(3-vly))*fct
        ey3m(jj)=ey3m(jj)+(yt**3)*fct
      else
c   Case: lambda(y) .eq. 0., i.e. abs(lambda(y)) < 1.e-4 .
        y1phi=dexp(ww)*fct

```

```

        eym(jj)=eym(jj)+y1phi
        y2phi=dexp(2*ww)*fct
        ey2m(jj)=ey2m(jj)+y2phi
        y3phi=dexp(3*ww)*fct
        ey3m(jj)=ey3m(jj)+y3phi
    endif
    sylphi=sylphi+y1phi
    sy2phi=sy2phi+y2phi
    sy3phi=sy3phi+y3phi
c    Case with Heteroskedasticity
    if(ndm.ne.-1)then
        sylphih=sylphih+y1phi*(ww-smx)
        sy2phih=sy2phih+y2phi*(ww-smx)
        sy3phih=sy3phih+y3phi*(ww-smx)
    endif
189    continue

c Case with LAMBDA(y) negative
    if(avly.ge.1.e-4.and.vly.lt.0.)then
        eym(jj)=eym(jj)+uly1p
        ey2m(jj)=ey2m(jj)+uly*uly1p
        ey3m(jj)=ey3m(jj)+(uly**2)*uly1p
    endif

c    compute Variance of y at the sample means of x (varym)
c    and Skewness of y at the sample means of x (gamma)
        varym(jj)=ey2m(jj)-eym(jj)**2
        stdym(jj)=dsqrt(varym(jj))
        xmu3=ey3m(jj)-eym(jj)*(3*ey2m(jj)-2*(eym(jj)**2))
        gamma(jj)=xmu3/stdym(jj)**3

c    compute the elasticity of E(y): (el)
c        the elasticity of the standard error of y: (elsty)
c        and the elasticity of the skewness of y: (elgamma)

c    with respect to the CONSTANT
        derey(nb1,jj)=b(nb1)*sylphi
        el(nb1,jj)=derey(nb1,jj)/eym(jj)
        dsy2phi=sy2phi-eym(jj)*sylphi
        dersigma(nb1,jj)=b(nb1)*dsy2phi/stdym(jj)
        elsty(nb1,jj)=dersigma(nb1,jj)/stdym(jj)
        derey2=2*b(nb1)*sy2phi
        derey3=3*b(nb1)*sy3phi
        dermu3=derey3-(derey(nb1,jj)*(3*ey2m(jj)-2*eym(jj)**2)
+    +eym(jj)*(3*derey2-4*eym(jj)*derey(nb1,jj)))
        dersig3=3*varym(jj)*dersigma(nb1,jj)
        dergamma(nb1,jj)=(dermu3-gamma(jj)*dersig3)/stdym(jj)**3
        elgamma(nb1,jj)=dergamma(nb1,jj)/gamma(jj)
c October 11,2005: Heteroskedasticity
    if(ndm.ne.-1)then
        sy2phih=sy2phih-eym(jj)*sylphih
        do 1901 j3=1,nd
            nz=numx(j3)
            dzvlz=0.5*d(j3)*(xm(nz,jj)**(vle(j3)-1))
            dereyz(j3,jj)=dzvlz*sylphih
            dersigz(j3,jj)=dzvlz*sy2phih/stdym(jj)
            elstyz(j3,jj)=dzvlz*sy2phih*xm(nz,jj)/varym(jj)
            derey2z(j3,jj)=2*dzvlz*sy2phih
            derey3z(j3,jj)=3*dzvlz*sy3phih
            elz(j3,jj)=dereyz(j3,jj)*xm(nz,jj)/eym(jj)

```

```

        dermu3=derey3z(j3,jj)-(dereyz(j3,jj)
+        *(3*ey2m(jj)-2*eym(jj)**2)
+        +eym(jj)*(3*derey2z(j3,jj)-4*eym(jj)*dereyz(j3,jj)))
        dersig3=3*varym(jj)*dersigz(j3,jj)
        dergamz(j3,jj)=(dermu3-gamma(jj)*dersig3)/stdym(jj)**3
        elgamz(j3,jj)=dergamz(j3,jj)*xm(nz,jj)/gamma(jj)
1901      continue
      endif

c    with respect to an independent variable without Box-Cox transformation
      if(nsl.gt.0)then
        do 190 j1=1,nsl
          nslj=numsl(j1)
          derey(nslj,jj)=b(nslj)*sy1phi
          el(nslj,jj)=derey(nslj,jj)*xm(nslj,jj)/eym(jj)
          dersigma(nslj,jj)=b(nslj)*dsy2phi/stdym(jj)
          elsty(nslj,jj)=dersigma(nslj,jj)*xm(nslj,jj)/stdym(jj)
          derey2=2*b(nslj)*sy2phi
          derey3=3*b(nslj)*sy3phi
          dermu3=derey3-(derey(nslj,jj)*(3*ey2m(jj)-2*eym(jj)**2)
+          +eym(jj)*(3*derey2-4*eym(jj)*derey(nslj,jj)))
          dersig3=3*varym(jj)*dersigma(nslj,jj)
          dergamma(nslj,jj)=(dermu3-gamma(jj)*dersig3)/stdym(jj)**3
          elgamma(nslj,jj)=dergamma(nslj,jj)*xm(nslj,jj)/gamma(jj)
190      continue
        endif

c    with respect to an independent variable with fixed Box-Cox parameter

      if(ngf.gt.0)then
        do 192 j1=1,ngf
          nfj=nxf(j1)
          do 192 j2=1,nfj
            nx=numxf(j1,j2)
            derey(nx,jj)=0.
            dersigma(nx,jj)=0.
            elsty(nx,jj)=0.
            if(xm(nx,jj).ne.0.)then
              bxvl=b(nx)*(xm(nx,jj)**(vlxf(j1)-1))
              derey(nx,jj)=bxvl*sy1phi
              dersigma(nx,jj)=bxvl*dsy2phi/stdym(jj)
              elsty(nx,jj)=dersigma(nx,jj)*xm(nx,jj)/stdym(jj)
              derey2=2*bxvl*sy2phi
              derey3=3*bxvl*sy3phi
            endif
          endif

c    Case with Heteroskedasticity with fixed Box-Cox
          if(ndm.ne.-1)then
            do 191 j3=1,nd
              if(nx.eq.numx(j3))then
                derey(nx,jj)=derey(nx,jj)+dereyz(j3,jj)
                dersigma(nx,jj)=dersigma(nx,jj)
+                +dersigz(j3,jj)
                elsty(nx,jj)=elsty(nx,jj)+elstyz(j3,jj)
                derey2=derey2+derey2z(j3,jj)
                derey3=derey3+derey3z(j3,jj)
              endif
191          continue
            endif

c    End of Heteroskedasticity Case

```

```

        el(nx,jj)=derey(nx,jj)*xm(nx,jj)/eym(jj)
        dermu3=derey3-(derey(nx,jj)*(3*ey2m(jj)-2*eym(jj)**2)
+       +eym(jj)*(3*derey2-4*eym(jj)*derey(nx,jj)))
        dersig3=3*varym(jj)*dersigma(nx,jj)
        dergamma(nx,jj)=(dermu3-gamma(jj)*dersig3)
+       /stdym(jj)**3
        elgamma(nx,jj)=dergamma(nx,jj)*xm(nx,jj)/gamma(jj)
192      continue
    endif

c    with respect to an independent variable with estimated Box-Cox parameter
    if(ngv.gt.0)then
        do 194 j1=1,ngv
            nvj=nxv(j1)
            do 194 j2=1,nvj
                nx=numxv(j1,j2)
                derey(nx,jj)=0.
                dersigma(nx,jj)=0.
                elsty(nx,jj)=0.
                if(xm(nx,jj).ne.0.)then
                    bxvl=b(nx)*(xm(nx,jj)**(vlxv(j1)-1))
                    derey(nx,jj)=bxvl*sy1phi
                    dersigma(nx,jj)=bxvl*dsy2phi/stdym(jj)
                    elsty(nx,jj)=dersigma(nx,jj)*xm(nx,jj)/stdym(jj)
                    derey2=2*bxvl*sy2phi
                    derey3=3*bxvl*sy3phi
                endif
            enddo
        enddo

c    Case with Heteroskedasticity with estimated Box-Cox
        if(ndm.ne.-1)then
            do 193 j3=1,nd
                if(nx.eq.numx(j3))then
                    derey(nx,jj)=derey(nx,jj)+dereyz(j3,jj)
                    dersigma(nx,jj)=dersigma(nx,jj)
+                   +dersigz(j3,jj)
                    elsty(nx,jj)=elsty(nx,jj)+elstyz(j3,jj)
                    derey2=derey2+derey2z(j3,jj)
                    derey3=derey3+derey3z(j3,jj)
                endif
            enddo
193      continue
        endif

c    End of Heteroskedasticity Case
        el(nx,jj)=derey(nx,jj)*xm(nx,jj)/eym(jj)
        dermu3=derey3-(derey(nx,jj)*(3*ey2m(jj)-2*eym(jj)**2)
+       +eym(jj)*(3*derey2-4*eym(jj)*derey(nx,jj)))
        dersig3=3*varym(jj)*dersigma(nx,jj)
        dergamma(nx,jj)=(dermu3-gamma(jj)*dersig3)
+       /stdym(jj)**3
        elgamma(nx,jj)=dergamma(nx,jj)*xm(nx,jj)/gamma(jj)
194      continue
    endif

c    Case without Box-Cox transformation on the dependent variable y
195      continue
        if(nly.lt.0)then
            do 196 i=1,nbl
                derey(i,jj)=dery(i,jj)
196      el(i,jj)=els(i,jj)
                eym(jj)=ym(jj)
            enddo
        endif

```

```

197 continue
c
c   print results at the initial step.
      if(iflag.eq.3)go to 205
c May 20 2008: Least squares estimation (nslq=1) if only the betas are
estimated,
c the other parameters, lambda(x), lambda(y), delta and lambda(z), are fixed.
      if(npar.eq.0)nlsq=1
      if(nlsq.eq.0)go to 198
c   initial step: first write of estimation results on unit 1 for TABLEX
      write(1,1380)titrey,varname,nvariant
      write(1,1390)nobs,nr,nc,nf,nobel,nb,nro,nsl,ngf,ngv,nly,ndm,nle,
+nd
198 continue

c OCTOBER 20 1994: Print the covariance matrix of the estimated BETA's only,
c using the OLS results instead of the BHHH method to compute the covariance
c matrix. Note that s2 is the OLS residual variance corrected for nb1 degrees
c of freedom, while s is the MAXIMUM LIKELIHOOD residual variance.
      s2=(s*nr)/(nr-nb1)
      if(ncov.eq.1)then
        print 1350
        do 199 i=1,nb1
          call loc(i,1,is,nb1,nb1,1)
          call loc(i,i,ir,nb1,nb1,1)
          print 1360,i,(s2*xx(j),j=is,ir)
199      continue
        endif
        print 1120
1120 format(//'INITIAL ESTIMATES')
        print 1130,nc,ncs,nf,nf
c Jan 10 2012, for TABQDF
        ncar=LNBLNK(varname)
        if(nvariant.lt.10)then
          encode(20,1011,varnum)nvariant
1011      format(i1)
          ElastFile=varname(1:ncar)//varnum(1:1)//'_ELA'//'.txt'
        elseif(nvariant.lt.100)then
          encode(20,1012,varnum)nvariant
1012      format(i2)
          ElastFile=varname(1:ncar)//varnum(1:2)//'_ELA'//'.txt'
        else
          encode(20,1013,varnum)nvariant
1013      format(i3)
          ElastFile=varname(1:ncar)//varnum(1:3)//'_ELA'//'.txt'
        endif
        open(unit=4,file=ElastFile)
        write(4,1404)varname,nvariant,titrey,nr
1404 format(a9,i4/a10,i5)
c End of correction
        f0=f
        do 200 i=1,nb1
          ir=(i*(i+1))/2
          ec=dsqrt(s2*xx(ir))
          t=b(i)/ec
          if(nlsq.eq.1)then
            write(1,1400)titrex(i),ntf(i),ngr(i),b(i),t,t,
+            coryx(i,1),coryx(i,1),(dery(i,j),j=1,2),(dery(i,j),j=1,2),
+            (dersigma(i,j),j=1,2),(dergamma(i,j),j=1,2),

```

```

+      (els(i,j),j=1,2),(el(i,j),j=1,2),
+      (elsty(i,j),j=1,2),(elgamma(i,j),j=1,2)
c May 12 2008: write on unit=4 for TABQDF
      if(titrex(i).ne.'constant')write(4,1403)titrex(i),t,els(i,1)
1403      format(a10,2d15.7)
      endif
      200 print 1140,i,titrex(i),ntf(i),ngr(i),b(i),xm(i,1),ec,t,(els(i,j),
+el(i,j),j=1,2),(elsty(i,j),j=1,2),(elgamma(i,j),j=1,2)
c May 20 2008
      print 1002
1002  format(/'LAMBDA TYPE SYMBOL: '/
+ ' NL = NO LAMBDA'/' FL = FIXED LAMBDA'/' EL = ESTIMATED LAMBDA')
c Print the Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
c with respect to the Independent Variables, at the initial step.
      esa(1)=eym(1)
      esa(2)=stdym(1)
      esa(3)=gamma(1)
      print 1150
      do 201 i=1,nb1
          deresa(i,1)=derey(i,1)
          deresa(i,2)=dersigma(i,1)
          deresa(i,3)=dergamma(i,1)
      201 print 1160,i,titrex(i),dery(i,1),derey(i,1),dersigma(i,1),
+dergamma(i,1)
c Compute the Marginal Rate of Substitution (and Elasticity of
c substitution) between two moments
c and the Marginal Rate of Substitution between two independent variables,
c at the initial step.
      call mrs(deresa,esa,nb1,titrex)

      if(nlsq.eq.0)go to 205
      if(ngf.ne.0)write(1,1570)(vlxf(i),i=1,ngf)
      if(nly.eq.0)write(1,1570)vly
      if(ndm.eq.-1)go to 205
      if(ndm.ne.0)go to 203
      do 202 i=1,nd
          j=numx(i)
      202 write(1,1401)titrex(j),d(i)
      203 if(nle.ne.0)go to 205
          do 204 i=1,nd
              j=numx(i)
      204 write(1,1401)titrex(j),vle(i)
      205 continue
c
c  compute expected values of y and y** for each observation
c  compute pseudo-e-r2 and pseudo-(1)-r2
      wmax=0.
      do 206 i=1,nr
          absu=dabs(uss(i))
          if(absu.gt.wmax)wmax=absu
      206 continue
      if(nly.lt.0)go to 207
      if(avly.lt.1e-4)go to 207
      if(vly.ge.0.)go to 207
      sk=uly**vly/vly
      print 1000
      207 continue
      if(iflag.eq.1.and.nres.eq.2.or.iflag.eq.3.and.nres.ne.0)print 1170
      if(iflag.eq.3.and.ney.eq.1)write(3,2149)varname,nvariant,titrey,
+titrey,(titrex(i),i=1,nb)

```

```

2149  format(a9,i4/"Obs.no. E(",a8,"")"/
      +"Derivatives E(",a8,"") with respect to X"/(5a15))
      syey=0.
      plim=0.
      p=0.
      do 215 i=nc,nf
        it=i-nc+1
        est(it)=0.
        xssb=yss(it)-uss(it)
        if(nly.lt.0)then
c Case without Box-Cox on y
          ey=rfxt(i)*(xssb+srys(i))
        else
c Case with Box-Cox on y
          bu=5*sigs
          bl=-bu
          if(avly.lt.1e-4)go to 210
c Case with vly not equal to 0.
          gt=-(1/(vly*rfxt(i))+xssb+srys(i))
          z=gt/sigs
          call ndtr(z,p,dens)
          est(it)=gt*p+sigs*dens
          if(vly.gt.0.)go to 209
c Case with vly < 0.
          est(it)=gt-est(it)
          p=1.d0
          uly1p=0.d0
          wup=sk/rfxt(i)+gt
          if(wup.ge.bu)go to 210
          bu=wup
          bus=bu/sigs
          call ndtr(bus,p,dens)
          uly1p=uly*(1-p)
          go to 210
209  if(gt.gt.bl)bl=gt
210  rj=(bu-bl)/2
      ct=(bu+bl)/2
      ey=0.
      ey2=0.
      ey3=0.
      sy1phi=0.
      sy2phi=0.
      sy3phi=0.
      sy1phih=0.
      sy2phih=0.
      sy3phih=0.
      do 212 j=1,32
        w=rj*tt(j)+ct
        ww=rfxt(i)*(xssb+srys(i)+w)
        fct=dexp(-0.5*(w/sigs)**2)*wt(j)*rj/ss
        if(avly.ge.1e-4)then
c Case : lambda(y).ne.0
          yt=(1+vly*ww)**uvly
          ey=ey+yt*fct
          ey2=ey2+yt*yt*fct
          ey3=ey3+(yt**3)*fct
          y1phi=(yt**(1-vly))*fct
          y2phi=(yt**(2-vly))*fct
          y3phi=(yt**(3-vly))*fct
        else

```

```

c Case : lambda(y).eq.0
    y1phi=dexp(ww)*fct
    ey=ey+y1phi
    y2phi=dexp(2*ww)*fct
    ey2=ey2+y2phi
    y3phi=dexp(3*ww)*fct
    ey3=ey3+y3phi
endif
sy1phi=sy1phi+y1phi
sy2phi=sy2phi+y2phi
sy3phi=sy3phi+y3phi
c Case with Heteroskedasticity
    if(ndm.ne.-1)then
        sxb=b(nb1)
        if(nsl.gt.0)then
            do 345 j1=1,nsl
                nslj=nums1(j1)
345         sxb=sxb+b(nslj)*x(i,nslj)
            endif
            if(ngf.gt.0)then
                do 347 j1=1,ngf
                    nfj=nxf(j1)
                    do 347 j2=1,nfj
                        nx=numxf(j1,j2)
347         sxb=sxb+b(nx)*zlam(x(i,nx),vlxf(j1))
                    endif
                if(ngv.gt.0)then
                    do 349 j1=1,ngv
                        nvj=nxv(j1)
                        do 349 j2=1,nvj
                            nx=numxv(j1,j2)
349         sxb=sxb+b(nx)*zlam(x(i,nx),vlxv(j1))
                        endif
                    wwsxb=ww-sxb
                    sy1phih=sy1phih+y1phi*wwsxb
                    sy2phih=sy2phih+y2phi*wwsxb
                    sy3phih=sy3phih+y3phi*wwsxb
                endif
            212 continue
            if(avly.ge.1e-4.and.vly.lt.0.)then
c Case : lambda(y) negative
                p=1-p
                ey=ey+uly1p
                ey2=ey2+uly*uly1p
                ey3=ey3+(uly**2)*uly1p
            endif
c Compute Variance (varyt) , Standard error (stdyt) and Skewness (gammat) of y
c for each observation t
            varyt=ey2-ey**2
            stdyt=dsqrt(varyt)
            xmu3=ey3-ey*(3*ey2-2*ey**2)
            gammat=xmu3/stdyt**3
c For each observation t:
c     compute the derivative and the elasticity of E(y): deyt and eleyt
c     the derivative and the elasticity of the standard error of y:
c     dsigmat and elsigmat
c     and the derivative and the elasticity of the skewness of y:
c     dgammat and elgammat
c     with respect to the CONSTANT
            deyt(nb1)=b(nb1)*sy1phi

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```

eleyt(nb1)=deyt(nb1)/ey
dsy2phi=sy2phi-ey*sy1phi
dsigmat(nb1)=b(nb1)*dsy2phi/stdyt
elsigmat(nb1)=dsigmat(nb1)/stdyt
derey2=2*b(nb1)*sy2phi
derey3=3*b(nb1)*sy3phi
dermu3=derey3-(deyt(nb1)*(3*ey2-2*ey**2)
+ ey*(3*derey2-4*ey*deyt(nb1)))
dersig3=3*varyt*dsigmat(nb1)
dgamma(nb1)=(dermu3-gamma*dersig3)/stdyt**3
elgamma(nb1)=dgamma(nb1)/gamma
if(ndm.ne.-1) sy2phih=sy2phih-ey*sy1phih

c  with respect to an independent variable without Box-Cox transformation
  if(nsl.gt.0)then
    do 390 j1=1,nsl
      nslj=numsl(j1)
      deyt(nslj)=b(nslj)*sy1phi
      eleyt(nslj)=deyt(nslj)*x(i,nslj)/ey
      dsigmat(nslj)=b(nslj)*dsy2phi/stdyt
      elsigmat(nslj)=dsigmat(nslj)*x(i,nslj)/stdyt
      derey2=2*b(nslj)*sy2phi
      derey3=3*b(nslj)*sy3phi
      dermu3=derey3-(deyt(nslj)*(3*ey2-2*ey**2)
+ ey*(3*derey2-4*ey*deyt(nslj)))
      dersig3=3*varyt*dsigmat(nslj)
      dgamma(nslj)=(dermu3-gamma*dersig3)/stdyt**3
      elgamma(nslj)=dgamma(nslj)*x(i,nslj)/gamma
390    continue
  endif

c  with respect to an independent variable with fixed Box-Cox parameter

  if(ngf.gt.0)then
    do 392 j1=1,ngf
      nfj=nxf(j1)
      do 392 j2=1,nfj
        nx=numxf(j1,j2)
        deyt(nx)=0.
        dsigmat(nx)=0.
        elsigmat(nx)=0.
        if(x(i,nx).ne.0.)then
          bxvl=b(nx)*(x(i,nx)**(vlxf(j1)-1))
          deyt(nx)=bxvl*sy1phi
          dsigmat(nx)=bxvl*dsy2phi/stdyt
          elsigmat(nx)=dsigmat(nx)*x(i,nx)/stdyt
          derey2=2*bxvl*sy2phi
          derey3=3*bxvl*sy3phi
        endif
      do 392
    endif

c  Case with Heteroskedasticity with fixed Box-Cox
  if(ndm.ne.-1)then
    do 391 j3=1,nd
      if(nx.eq.numx(j3))then
        dzvlz=0.5*d(j3)*(x(i,nx)**(vle(j3)-1))
        deyt(nx)=deyt(nx)+dzvlz*sy1phih
        dsigmat(nx)=dsigmat(nx)+dzvlz*sy2phih/stdyt
        elsigmat(nx)=elsigmat(nx)+dzvlz*sy2phih
+ x(i,nx)/varyt
        derey2=derey2+2*dzvlz*sy2phih

```

```

                                derey3=derey3+3*dzvlz*sy3phi
                                endif
391                                continue
                                endif
c    End of Heteroskedasticity Case
                                eleyt(nx)=deyt(nx)*x(i,nx)/ey
                                dermu3=derey3-(deyt(nx)*(3*ey2-2*ey**2)
+                                +ey*(3*derey2-4*ey*deyt(nx)))
                                dersig3=3*varyt*dsigmat(nx)
                                dgammat(nx)=(dermu3-gammat*dersig3)
+                                /stdyt**3
                                elgammat(nx)=dgammat(nx)*x(i,nx)/gammat
392                                continue
                                endif

c    with respect to an independent variable with estimated Box-Cox parameter
                                if(ngv.gt.0)then
                                    do 394 j1=1,ngv
                                        nvj=nxv(j1)
                                        do 394 j2=1,nvj
                                            nx=numxv(j1,j2)
                                            deyt(nx)=0.
                                            dsigmat(nx)=0.
                                            elsigmat(nx)=0.
                                            if(x(i,nx).ne.0.)then
                                                bxvl=b(nx)*(x(i,nx)**(vlxv(j1)-1))
                                                deyt(nx)=bxvl*sy1phi
                                                dsigmat(nx)=bxvl*dsy2phi/stdyt
                                                elsigmat(nx)=dsigmat(nx)*x(i,nx)/stdyt
                                                derey2=2*bxvl*sy2phi
                                                derey3=3*bxvl*sy3phi
                                            endif
                                        enddo
                                    enddo

c    Case with Heteroskedasticity with estimated Box-Cox
                                if(ndm.ne.-1)then
                                    do 393 j3=1,nd
                                        if(nx.eq.numx(j3))then

                                            dzvlz=0.5*d(j3)*(x(i,nx)**(vle(j3)-1))
                                            deyt(nx)=deyt(nx)+dzvlz*sy1phi
                                            dsigmat(nx)=dsigmat(nx)+dzvlz*sy2phi
+                                            /stdyt
                                            elsigmat(nx)=elsigmat(nx)+dzvlz*sy2phi
+                                            *x(i,nx)/varyt
                                            derey2=derey2+2*dzvlz*sy2phi
                                            derey3=derey3+3*dzvlz*sy3phi
                                        endif
393                                continue
                                    endif

c    End of Heteroskedasticity Case
                                eleyt(nx)=deyt(nx)*x(i,nx)/ey
                                dermu3=derey3-(deyt(nx)*(3*ey2-2*ey**2)
+                                +ey*(3*derey2-4*ey*deyt(nx)))
                                dersig3=3*varyt*dsigmat(nx)
                                dgammat(nx)=(dermu3-gammat*dersig3)
+                                /stdyt**3
                                elgammat(nx)=dgammat(nx)*x(i,nx)/gammat
394                                continue
                                endif
                                endif

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```

      yey=y(i)-ey
      syey=syey+yey*yey
      plim=plim+p
      do 214 j=1,37
214 blank(j)=' '
      ns=1
      if(uss(it).lt.0.)ns=-1
      ncol=idint(18*(uss(it)/wmax)+0.5*ns)+19
      blank(19)='.'
      blank(ncol)='0'
      eyt=xssb+est(it)
      yeyss=yss(it)-eyt
      nsym=' '
      if(dabs(est(it))/sigs.gt.0.01)nsym=2h**
      if(iflag.eq.1.and.nres.eq.2.or.iflag.eq.3.and.nres.ne.0)
      +print 1180,i,y(i),ey,yey,yss(it),eyt,xssb,yeyss,uss(it),nsym,
      +(blank(j),j=1,37)
c Write obs.no., E(Y) and its derivatives with respect to X in a file
      if(iflag.eq.3.and.ney.eq.1)write(3,2150)i,ey,(deyt(j),j=1,nb)
2150 format(i5,d15.7/(5d15.7))
      yexp(i)=ey
215 continue
      if(iflag.eq.3.and.ney.eq.1)close(3)
      plim=plim/nr
      print 1190,plim
      yssm=0.
      do 216 i=1,nr
216 yssm=yssm+yss(i)/nr
c Compute the log-likelihood associated with bzero only (Correction June 14
2000)
      sig2wbz=0.d0
      do 2016 i=1,nr
2016 sig2wbz=sig2wbz+((yss(i)-yssm)**2)/nr
      fbz=-clik-nr*dlog(sig2wbz)/2
      if(nly.ge.0)fbz=fbz+(vly-1)*sly
      if(ndm.ge.0)fbz=fbz-slfx/2

c compute unadjusted and adjusted r2's
c March 8 2001: We don't need anymore r2 and r2a, which are replaced
c with the Pearson's R2: r2p (unadjusted) and r2pa (adjusted for D.F.)
c      r2=1-syey/sdy
      r2l=1-dexp(2*(fbz+f)/nr)
      df=dfloat(nb1)
      if(iflag.eq.3)df=df+npar
      ratio=(nr-1)/(nr-df)
c      r2a=1-ratio*(1-r2)
      r2la=1-ratio*(1-r2l)

      if(vly.lt.0.and.avly.ge.1e-4)
      +print*,'Upper limit for y if lambda(y) is negative =',uly
c Compute the three moments of Y and the new Pearson-R2's (r2p and r2pa)
      call moment(y,yexp,nobs,nc,nf,ratio,r2p,r2pa,ymom,eymom)
c Compute Coefficient of Variation at the sample means (cofvar)
      cofvar=dsqrt(varym(1))/eym(1)
      print 1210,eym(1)
      print 1220,stdym(1),cofvar
      print 1230,gamma(1)
      print 1240,r2p,r2pa
      print 1250,r2l,r2la
      print 1260,s

```

```

        flik0=-f0
        flik1=-f
        print 1270,flik1
c      call draw(yexp,uss,sigs,'E(y)',nobs)
        if(iflag.eq.1.and.nlsq.eq.1)write(1,1580)flik0,r2p,r2pa,r2l,r2la,
+plim,(ymom(i),i=1,3),(esa(i),i=1,3),(eymom(i),i=1,3)
c
c      list residuals (w) by quarters or months
        if(npw.eq.0)go to 220
        print 1280,ntw(npw)
        nqml=nqm+nc-2
        do 217 i=1,nqml
217    est(i)=0.
        do 218 i=nc,nf
            it=i-nc+1
            ir=it+nqml
218    est(ir)=uss(it)
        ndiv=4
        if(npw.eq.2)ndiv=12
        print 1290,(i,i=1,ndiv)
        print 1300
        nyr=ir/ndiv
        nan=nyear
        do 219 i=1,nyr
            j2=i*ndiv
            j1=j2-ndiv+1
            print 1310,nan,(est(j),j=j1,j2)
219    nan=nan+1
            j2=j2+1
            if(ir-nyr*ndiv.ne.0)print 1310,nan,(est(j),j=j2,ir)
220    continue
c
c      plot residuals (u,v,w) against one independent variable
c      (vertical axis) with observations ordered by increasing values.
        if(iflag.eq.2.and.nro.eq.0.and.ndm.eq.-1)go to 241
221    continue
        do 228 i=nc1,nf
            u(i,1)=y(i)-b(nb1)
            if(nly.ge.0)u(i,1)=zlam(y(i),vly)-b(nb1)
            if(nsl.eq.0)go to 223
            do 222 j=1,nsl
                nslj=nums1(j)
222        u(i,1)=u(i,1)-x(i,nslj)*b(nslj)
223        if(ngf.eq.0)go to 225
            do 224 j=1,ngf
                nfj=nxf(j)
                do 224 j1=1,nfj
                    nx=numxf(j,j1)
224        u(i,1)=u(i,1)-zlam(x(i,nx),vlsx(j))*b(nx)
225        if(ngv.eq.0)go to 227
            do 226 j=1,ngv
                nvj=nxv(j)
                do 226 j1=1,nvj
                    nx=numxv(j,j1)
226        u(i,1)=u(i,1)-zlam(x(i,nx),vlxv(j))*b(nx)
227        u(i,2)=u(i,1)/rfxt(i)
228    continue
        if(iflag.eq.2)go to 241
        if(nscale.eq.1)go to 241
        if(nguvw.eq.0)go to 240

```

```

do 229 j=1,3
    umax(j)=0.
229 umean(j)=0.
    do 230 i=nc,nf
        u(i,3)=uss(i-nc+1)
        do 230 j=1,3
230 umean(j)=umean(j)+u(i,j)/nr
    do 231 i=nc,nf
        do 231 j=1,3
            ucm=dabs(u(i,j)-umean(j))
            if(ucm.gt.umax(j))umax(j)=ucm
231 continue
    do 239 i=1,nguvw
        j=numg(i)
        call draw(x(1,j),u(1,3),sigs,titrex(j),nobs)
        print 1320
        print 1330,titrex(j),(umean(kr),kr=1,3)
        kk=0
232 xt=1.d50
        kk1=kk
        kk=kk+1
        do 235 k=1,nr
            if(kk1.eq.0)go to 234
            do 233 ik=1,kk1
                if(num(ik).eq.k)go to 235
233 continue
234 continue
                it=k+nc-1
                if(x(it,j).ge.xt)go to 235
                xt=x(it,j)
                num(kk)=k
235 continue
            if(kk.lt.nr)go to 232
            do 238 k=1,nr
                jj=num(k)
                it=jj+nc-1
                do 237 kr=1,3
                    do 236 kk=1,29
236 blan(kk,kr)=' '
                        ns=1
                        ucm=u(it,kr)-umean(kr)
                        if(ucm.lt.0.)ns=-1
                        ncol=idint(14*(ucm/umax(kr))+0.5*ns)+15
                        blan(15,kr)='.'
                        blan(ncol,kr)='0'
237 continue
238 print 1340,it,x(it,j),(u(it,kr),(blan(kk,kr),kk=1,29),kr=1,3)
239 continue
240 continue
        if(iflag.eq.1.and.npdql.eq.2)call pdql(uss,est,srys,nr,
+ndiff,ndlsea,lnper,nlag,nlagp)
        if(iflag.eq.3.and.npdql.ne.0)call pdql(uss,est,srys,nr,
+ndiff,ndlsea,lnper,nlag,nlagp)
        if(nlsq.eq.1.and.nfp.gt.nf)go to 291

        if(nlsq.eq.1.)stop
c
c when iflag=1, scale y and x before computing the gradient.
c if(iflag.eq.1)go to 121
c

```

```

c compute covariance matrix of the parameters from the inverse of the
c covariance matrix of the gradient of the log-likelihood function
241 continue
    jdy=0
    do 242 j=1,np
        dlfxt(j)=0.
242 grad(j)=0.
    grad(np1)=0.
    do 261 i=nc,nf
        it=i-nc+1
c derivatives for b(k)
    do 243 j=1,nb1
243     duss(j)=-xss(it,j)
    do 244 j=nb2,np
244     duss(j)=0.
    do 258 j1=1,j1
        jd=nb1+nro
        il=i
        jml=j1-1
        if(j1.gt.1)il=i-1(jml)
        if(ngv.eq.0)go to 247
c derivatives for lambda(xk)
    do 246 j2=1,ngv
        jd=jd+1
        nvj=nxv(j2)
        do 246 j3=1,nvj
            nx=numxv(j2,j3)
            dzl=b(nx)*derzl(x(il,nx),v1xv(j2))/rfxt(il)
            if(j1.gt.1)go to 245
            duss(jd)=duss(jd)-dzl
            go to 246
245     duss(jd)=duss(jd)+ro(jml)*dzl
246     continue
247     continue
c derivative for lambda(y)
    if(nly.le.0)go to 251
    if(nly.eq.2)go to 248
    jd=jd+1
    jdy=jd
    go to 249
248     jdy=jd-ngv+ngxy
249     continue
    dzl=derzl(y(il),vly)/rfxt(il)
    if(j1.gt.1)go to 250
    duss(jdy)=duss(jdy)+dzl
    go to 251
250     duss(jdy)=duss(jdy)-ro(jml)*dzl
251     continue
    if(nro.eq.0)go to 252
c derivatives for ro(l)
    nbr=nb1+jml
    if(j1.gt.1)duss(nbr)=duss(nbr)-u(il,2)
252     if(ndm.ne.1)go to 255
c derivatives for delta(m)
    do 254 j2=1,nd
        jd=jd+1
        nx=numx(j2)
        dlfn=zlam(x(il,nx),vle(j2))
        if(j1.gt.1)go to 253
        dlfxt(jd)=dlfn

```

```

                duss(jd)=duss(jd)-u(il,2)*dlmf/2
                go to 254
253            duss(jd)=duss(jd)+ro(jm1)*u(il,2)*dlmf/2
254            continue
255            if(nle.eq.0)go to 258
c    derivatives for lambda(em)
                do 257 j2=1,nd
                    jd=jd+1
                    nx=numx(j2)
                    dlmf=d(j2)*derzl(x(il,nx),vle(j2))
                    if(j1.gt.1)go to 256
                    dlfxt(jd)=dlmf
                    duss(jd)=duss(jd)-u(il,2)*dlmf/2
                    go to 257
256            duss(jd)=duss(jd)+ro(jm1)*u(il,2)*dlmf/2
257            continue
258            continue
c    calcul de dt
                factor=-uss(it)/s
                do 259 j=1,np
                    dt(j)=factor*duss(j)-dlfxt(j)/2
                    if(j.eq.jdy)dt(j)=dt(j)+dlog(y(i))
259            continue
                dt(np1)=(factor*factor-1/s)/2
c    calcul du gradient
c    compute the gradient (grad) and its covariance matrix (cov)
                call gmadd(grad,dt,grad,1,np1)
                if(iflag.ne.3)go to 261
                jj=0
                do 260 j1=1,np1
                    do 260 j2=1,j1
                        jj=jj+1
260            cov(jj)=cov(jj)+dt(j1)*dt(j2)
261            continue
                if(iflag.eq.3)go to 265
                if(nro.eq.0)go to 263
                do 262 j=1,nro
262            g(j)=-grad(nb1+j)*(1-ro(j)**2)
263            jd=1+nro
                do 264 j=jd,npar
264            g(j)=-grad(nb1+j)
                return
265            continue
c Compute the covariance matrix conditional on lambda(x)-(y)-(z).
c Extract from the covariance matrix of the gradient COV
c by skipping the rows and columns associated with the estimated
c lambda(y), lambda(x)'s and lambda(z)'s (if kon().eq.1),
c to create the matrix COND which will give after inversion
c the conditional covariance matrix of beta's, delta's and rho's.
                ij=0
                do 267 i=1,np1
                    if(kon(i).eq.1)go to 267
                    do 266 j=1,i
                        if(kon(j).eq.1)go to 266
                        ij=ij+1
                        call loc(i,j,ir,np1,np1,1)
                        cond(ij)=cov(ir)
266            continue
267            continue
                call sinv(cond,npc,eps,ier)

```

```

      call sinv(cov,np1,eps,ier)
      if(ier.eq.0)go to 270
      print*,'the covariance matrix of the gradient is impossible to inv
+tert...error no. ',ier
      print*,
+ 'the standard-errors of the parameters will be set equal to 1.'
      do 268 i=1,npc
        ir=i*(i+1)/2
268 cond(ir)=1.
      do 269 i=1,np1
269 dt(i)=1.
      go to 272
270 if(ncov.ne.0)print 1350
      do 271 i=1,np1
        call loc(i,1,is,np1,np1,1)
        call loc(i,i,ir,np1,np1,1)
        dt(i)=dsqrt(cov(ir))
        if(ncov.ne.0)print 1360,i,(cov(j),j=is,ir)
271 continue
272 continue
      if(ncor.ne.0)call vardec(xss,xx,titrex,nobs,nr,nb1,nxx)
      do 273 i=1,nr
273 xss(i,nb1)=yss(i)
      do 274 j=1,nbm
        xmean(j)=0.
      do 274 i=1,nr
274 xmean(j)=xmean(j)+xss(i,j)/nr
c Second call to CORREL: correlations among the transformed variables XSS and
c YSS.
      call correl(xss,xmean,xy,xx,titrex,titrety,nobs,nr,nb1,nbm,nxx,
+ncor)
      do 31 i=1,nb
        call loc(nb1,i,ir,nbm,nbm,1)
31 coryx(i,2)=xx(ir)
c By definition, the correlation between the transformed variable YSS and
c the regression constant is null.
      coryx(nb1,2)=0.d0
c Case where Z_m is not an X_k
      if(nm.gt.0)then
        do 33 i=1,nm
          call loc(nb1,nb1+i,ir,nbm,nbm,1)
          coryz(i,2)=xx(ir)
33 continue
        endif
c Output the final results
      print 1121
1121 format(// 'FINAL ESTIMATES')
      print 1370,nc,ncs,nf,nf

c Final step: first write of estimation results on unit 1 for TABLEX
      write(1,1380)titrety,varname,nvariant
      write(1,1390)nobs,nr,nc,nf,nobel,nb,nro,ns1,ngf,ngv,nly,ndm,nle,
+nd
      jd=nb1
c May 12 Dénominateur de la part calculé par SHARE Logit (BC1:20)08
c Beta coefficients
      do 275 i=1,nb1
        t=b(i)/dt(i)
        ir=i*(i+1)/2
        ec=dsqrt(cond(ir))

```



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        tc=b(i)/ec
        write(1,1400)titrex(i),ntf(i),ngr(i),b(i),t,tc,
+       (coryx(i,j),j=1,2),(dery(i,j),j=1,2),(derey(i,j),j=1,2),
+       (dersigma(i,j),j=1,2),(dergamma(i,j),j=1,2),
+       (els(i,j),j=1,2),(el(i,j),j=1,2),
+       (elsty(i,j),j=1,2),(elgamma(i,j),j=1,2)
c May 12 2008 : write on unit=4 for TABQDF
        if(titrex(i).ne.'constant')write(4,1403)titrex(i),tc,els(i,1)

275 print 1410,i,titrex(i),ntf(i),ngr(i),b(i),grad(i),dt(i),t,(els
+ (i,j),el(i,j),j=1,2),ec,tc,(elsty(i,j),j=1,2),(elgamma(i,j),j=1,2)

        if(nro.eq.0)go to 277
c Estimated Rho's
        print 1420
        do 276 i=1,nro
            jd=jd+1
            t=ro(i)/dt(jd)
            ir=jd*(jd+1)/2
            ec=dsqrt(cond(ir))
            tc=ro(i)/ec
            write(1,1430)l(i),ro(i),t,tc
276 print 1440,jd,l(i),ro(i),grad(jd),dt(jd),t,ec,tc
277 continue
            jc=jd
            if(ngv.eq.0)go to 280
c Estimated Lambda(x) 's
            print 1450
            do 279 i=1,ngv
                jd=jd+1
                t=vlxv(i)/dt(jd)
                t1=(vlxv(i)-1)/dt(jd)
                write(1,1460)vlxv(i),t,t1
                if(nly.eq.2.and.ngxy.eq.i)go to 278
                print 1470,jd,i,vlxv(i),grad(jd),dt(jd),t,t1
                go to 279
278 print 1480,jd,i,vlxv(i),grad(jd),dt(jd),t,t1
279 continue
280 if(nly.eq.2)write(1,1490)ngxy
            if(nly.ne.1)go to 281
c Estimated Lambda(y)
            print 1500
            jd=jd+1
            t=vly/dt(jd)
            t1=(vly-1)/dt(jd)
            write(1,1460)vly,t,t1
            print 1510,jd,vly,grad(jd),dt(jd),t,t1
281 if(ndm.ne.1)go to 283
c Estimated Delta's
            print 1520
            do 282 i=1,nd
                jc=jc+1
                ir=jc*(jc+1)/2
                ec=dsqrt(cond(ir))
                tc=d(i)/ec
                jd=jd+1
                t=d(i)/dt(jd)
                j=numx(i)
c
c In vector par, the elements associated with the estimated delta-parameters

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c   are always in scaled units during the iterations: when convergence is
c   reached, they are replaced by their values in original units so that they
c   can be stored (option nstore=1) and used (option nstore=2) in a later run
c   when the ngrid option is selected.
c       jp=jd-nb1
c       par(jp)=d(i)
c       kk=0
c       do 350 k=1,nb
350   if(titrex(j).eq.titrex(k))kk=k
c       if(kk.gt.0)then
c Case where the variable Z appears also as an independent variable X.
c       write(1,1401)titrex(j),d(i),t,tc,
+       (coryx(kk,jj),jj=1,2),
+       (dery(kk,jj),jj=1,2),
+       (derey(kk,jj),jj=1,2),
+       (dersigma(kk,jj),jj=1,2),
+       (dergamma(kk,jj),jj=1,2),
+       (els(kk,jj),jj=1,2),
+       (el(kk,jj),jj=1,2),
+       (elsty(kk,jj),jj=1,2),
+       (elgamma(kk,jj),jj=1,2)
c       print 1540,jd,i,d(i),grad(jd),dt(jd),t,
+       (els(kk,jj),el(kk,jj),jj=1,2),ec,tc,
+       (elsty(kk,jj),jj=1,2),(elgamma(kk,jj),jj=1,2)
c       else
c October 11, 2005
c Case where the variable Z appears only in f(Z)
c       write(1,1401)titrex(j),d(i),t,tc,
+       (coryz(i,jj),jj=1,2),
+       (deryz(i,jj),jj=1,2),
+       (dereyz(i,jj),jj=1,2),
+       (dersigz(i,jj),jj=1,2),
+       (dergamz(i,jj),jj=1,2),
+       (elsz(i,jj),jj=1,2),
+       (elz(i,jj),jj=1,2),
+       (elstyz(i,jj),jj=1,2),
+       (elgamz(i,jj),jj=1,2)
c       print 1540,jd,i,d(i),grad(jd),dt(jd),t,
+       (elsz(i,jj),elz(i,jj),jj=1,2),ec,tc,
+       (elstyz(i,jj),jj=1,2),(elgamz(i,jj),jj=1,2)
c       endif
282 continue
283 if(nle.eq.0)go to 285
c Estimated Lambda(z) 's
c       do 284 i=1,nd
c       jd=jd+1
c       t=vle(i)/dt(jd)
c       t1=(vle(i)-1)/dt(jd)
c       j=numx(i)
c       write(1,1401)titrex(j),vle(i),t,t1
284 print 1550,jd,i,vle(i),grad(jd),dt(jd),t,t1
285 continue
c Estimated error variance (s)
c       jc=jc+1
c       ir=jc*(jc+1)/2
c       ec=dsqrt(cond(ir))
c       tc=s/ec
c       jd=jd+1
c       t=s/dt(jd)
c       print 1560,jd,s,grad(jd),dt(jd),t,ec,tc

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c May 20 2008
  print 1002

c Print the Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)
c with respect to the Independent Variables, at the final step.
  esa(1)=eym(1)
  esa(2)=stdym(1)
  esa(3)=gamma(1)
  print 1150
  do 286 i=1,nb1
    deresa(i,1)=derey(i,1)
    deresa(i,2)=dersigma(i,1)
    deresa(i,3)=dergamma(i,1)
  286 print 1160,i,titrex(i),dery(i,1),derey(i,1),dersigma(i,1),
    +dergamma(i,1)
c Compute the Marginal Rate of Substitution (and Elasticity of
c substitution) between two moments
c and the Marginal Rate of Substitution between two independent variables,
c at the final step.
  call mrs(deresa,esa,nb1,titrex)

  rt=2*(f0-f)
c Write on Unit 1 the fixed values of :
c   lambda(x) when ngf.ne.0 ;
c   lambda(y) when nly=0 ;
c   delta(m) when ndm=0, and lambda(z) when nle=0.
  if(ngf.ne.0)write(1,1570)(vlxf(i),i=1,ngf)
  if(nly.eq.0)write(1,1570)vly
  if(ndm.eq.-1)go to 290
  if(ndm.ne.0)go to 288
c Case fixed deltas
  do 287 i=1,nd
    j=numx(i)
    kk=0
    do 351 k=1,nb
351   if(titrex(j).eq.titrex(k))kk=k
    if(kk.gt.0)then
c Case where the variable Z appears also as an independent variable X.
      write(1,1402)titrex(j),d(i),
+      (coryx(kk,jj),jj=1,2),
+      (dery(kk,jj),jj=1,2),
+      (derey(kk,jj),jj=1,2),
+      (dersigma(kk,jj),jj=1,2),
+      (dergamma(kk,jj),jj=1,2),
+      (els(kk,jj),jj=1,2),
+      (el(kk,jj),jj=1,2),
+      (elsty(kk,jj),jj=1,2),
+      (elgamma(kk,jj),jj=1,2)
c      print 1540,jd,i,d(i),grad(jd),dt(jd),t,
c      +      (els(kk,jj),el(kk,jj),jj=1,2),ec,tc,
c      +      (elsty(kk,jj),jj=1,2),(elgamma(kk,jj),jj=1,2)
    else
c October 11, 2005
c Case where the variable Z appears only in f(Z)
      write(1,1402)titrex(j),d(i),
+      (coryz(i,jj),jj=1,2),
+      (deryz(i,jj),jj=1,2),
+      (dereyz(i,jj),jj=1,2),
+      (dersigz(i,jj),jj=1,2),

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+          (dergamz(i,jj),jj=1,2),
+          (elsz(i,jj),jj=1,2),
+          (elz(i,jj),jj=1,2),
+          (elstyz(i,jj),jj=1,2),
+          (elgamz(i,jj),jj=1,2)
c          print 1540,jd,i,d(i),grad(jd),dt(jd),t,
c      +          (elsz(i,jj),elz(i,jj),jj=1,2),ec,tc,
c      +          (elstyz(i,jj),jj=1,2), (elgamz(i,jj),jj=1,2)
      endif
287 continue
288 if(nle.ne.0)go to 290
c Case fixed lambda(z)'s
      do 289 i=1,nd
          j=numx(i)
289 write(1,1401)titrex(j),vle(i)
290 continue
c Write on Unit 1:
c Log-likelihood, the four R2's, the probability of Y to be at the limit
c the three sample moments (ymom), the three moments at the means (esa)
c and the three expected moments (eymom).
      write(1,1580)flik1,r2p,r2pa,r2l,r2la,plim,
+ (ymom(i),i=1,3), (esa(i),i=1,3), (eymom(i),i=1,3)
      print 1590,flik0,flik1,rt,r2p,r2pa,r2l,r2la,sigs
      print 1600
      print 1610,nobs,nobs
      print 1620,nr,nc,nf
c
c prediction of (y) for periods nf+1,...,nfp
      if(nfp.le.nf)return
      print 1630,nper,nf1,nfp
291 tv=tvalue(nr)
      if(nlsq.ne.0)then
          tv=tvalue(nr-nb1)
          s=s2
          do 292 i=1,nxx
292      cov(i)=s*xx(i)
          ir=(nb2*(nb2+1))/2
          cov(ir)=2*s*s/nr
      end if
      nbr=nb1+nro
      if(nly.eq.1)nply=nbr+ngv+1
      if(nly.eq.2)nply=nbr+ngxy
      print 1640,nper
      id=0
      do 319 i=nf1,nfp
          id=id+1
          rfxt(i)=1.
          if(ndm.ne.-1)then
              sdx=0.
              do 293 j=1,nd
                  nx=numx(j)
293      sdx=sdx+d(j)*zlam(x(i,nx),vle(j))
                  rfxt(i)=dexp(sdx/2)
              end if
              bxt=b(nb1)
              s21(nb1)=1/rfxt(i)
              if(nsl.ne.0)then
                  do 295 j=1,nsl
                      nslj=nums1(j)
                      bxt=bxt+b(nslj)*x(i,nslj)

```

```

                s21(nslj)=x(i,nslj)/rfxt(i)
                if(nro.eq.0)go to 295
                do 294 j2=1,nro
                    il=i-1(j2)
294             s21(nslj)=s21(nslj)-ro(j2)*x(il,nslj)/rfxt(il)
295             continue
            end if
            if(ngf.gt.0)then
                do 297 j=1,ngf
                    nfj=nxf(j)
                    do 297 j1=1,nfj
                        nx=numxf(j,j1)
                        xbc=zlame(x(i,nx),vlxf(j))
                        bxt=bxt+b(nx)*xbc
                        s21(nx)=xbc/rfxt(i)
                        if(nro.eq.0)go to 297
                        do 296 j2=1,nro
                            il=i-1(j2)
296             s21(nx)=s21(nx)-ro(j2)*zlame(x(il,nx),vlxf(j))/rfxt(il)
297             continue
            end if
            if(ngv.gt.0)then
                do 299 j=1,ngv
                    nvj=nxv(j)
                    jj=j+nbr
                    s21(jj)=0.
                    do 299 j1=1,nvj
                        nx=numxv(j,j1)
                        xbc=zlame(x(i,nx),vlxv(j))
                        bxt=bxt+b(nx)*xbc
                        s21(nx)=xbc/rfxt(i)
                        s21(jj)=s21(jj)+b(nx)*derzl(x(i,nx),vlxv(j))/rfxt(i)
                        if(nro.eq.0)go to 299
                        do 298 j2=1,nro
                            il=i-1(j2)
                            s21(nx)=s21(nx)-ro(j2)*zlame(x(il,nx),vlxv(j))/rfxt
+                               (il)
+                               s21(jj)=s21(jj)-b(nx)*ro(j2)*derzl(x(il,nx),vlxv(j)
+                               )/rfxt(il)
298             continue
299             continue
            end if
            rou=0.
            rody=0.
            if(ndm.eq.1)then
                do 300 j=1,nd
300             roux(j)=0.
            end if
            if(nle.eq.1)then
                do 301 j=1,nd
301             roudx(j)=0.
            end if
            if(nro.gt.0)then
                do 304 j=1,nro
                    il=i-1(j)
                    rou=rou+ro(j)*u(il,2)
                    s21(nb1)=s21(nb1)-ro(j)/rfxt(il)
                    if(nly.gt.0)rody=rody+ro(j)*derzl(y(il),vly)/rfxt(il)
                    s21(j+nb1)=u(il,2)
                    if(ndm.eq.1)then

```

```

do 302 j1=1,nd
  nx=numx(j1)
302   roux(j1)=roux(j1)+ro(j)*u(il,2)*zlam(x(il,nx),vle(j1))
end if
  if(nle.eq.1)then
    do 303 j1=1,nd
      nx=numx(j1)
303   roudx(j1)=roudx(j1)+ro(j)*u(il,2)*derzl(x(il,nx),vle
+     (j1))
    end if
304   continue
end if
b1=bxt+rfxt(i)*rou
if(nly.ge.0)then
  if(avly.lt.1.d-4)go to 305
  bb=-1-vly*b1
  ys=-bb
  if(ys.le.0.)go to 310
  ys=ys**uvly
  if(vly.eq.1.)go to 306
  cc=-vly*(vly-1)*s*rfxt(i)**2
  disc=bb*bb-4*cc
  if(disc.lt.0.)go to 307
  sqd=dsqrt(disc)
  yp1=-(bb-sqd)/2
  yp2=-(bb+sqd)/2
  nroot=0
  if(yp1.gt.0.)nroot=nroot+1
  if(yp2.gt.0.)nroot=nroot+1
  if(nroot.eq.0)go to 308
  if(nroot.gt.0)go to 309
305  yf=dexp(b1-s*rfxt(i)**2)
  ys=dexp(b1)
  go to 311
306  yf=-bb
  go to 311
307  print 1650,i
  return
308  print 1660,i
  return
309  yf=dmax1(yp1,yp2)**uvly
  go to 311
310  continue
  print 1670,i
  return
311  fsec=yf**(vly-1)/(s*rfxt(i))
  u(i,1)=zlam(yf,vly)-bxt
  u(i,2)=u(i,1)/rfxt(i)
  u(i,3)=u(i,2)-rou
  if(avly.ge.1.d-4)s22=-fsec*(2*yf**vly+bb)/(yf*rfxt(i))
  if(avly.lt.1.d-4)s22=-1/(s*(yf*rfxt(i))**2)
else
  yf=b1
  ys=b1
  fsec=1/(s*rfxt(i))
  u(i,1)=yf-bxt
  u(i,2)=u(i,1)/rfxt(i)
  u(i,3)=u(i,2)-rou
  s22=-1/(s*rfxt(i)**2)
end if

```

```

    if(s22.ge.0.)then
        print 1680,i
        return
    end if
    s21(np1)=u(i,3)/s
    if(nly.gt.0)then
        rody=rody+s*rfx(i)/(yf**vly)-u(i,3)*dlog(yf)-derzl(yf,vly)
+      /rfx(i)
        if(nly.eq.1) s21(np1)=rody
        if(nly.eq.2) s21(np1)=s21(np1)+rody
    end if
    nph=nbr+ngv
    if(nly.eq.1) nph=nph+1
    if(ndm.eq.1)then
        do 312 j=1,nd
            nx=numx(j)
            nph=nph+1
312      s21(nph)=(2*u(i,2)-rou)*zlam(x(i,nx),vle(j))-roux(j))/2
        end if
        if(nle.eq.1)then
            do 313 j=1,nd
                nx=numx(j)
                nph=nph+1
313      s21(nph)=d(j)*((2*u(i,2)-rou)*derzl(x(i,nx),vle(j))-roux(j)
+      )/2
            end if
            do 314 j=1,np1
314      s21(j)=fsec*s21(j)
            id1=id-1
            if(id1.eq.0)go to 317
            do 315 j=1,id1
315      s21(j+np1)=0.
            if(nro.eq.0)go to 317
            do 316 j=1,nro
                il=i-1(j)
                if(il.le.nf)go to 317
                ill=id-1(j)
                s21(ill+np1)=fsec*ro(j)/rfx(il)
                if(nly.ge.0) s21(ill+np1)=fsec*ro(j)*y(il)**(vly-1)/rfx(il)
316      continue
317      continue
            npd=np1+id1
            nps=(npd*(npd+1))/2
            npp=((npd+1)*(npd+2))/2
            call mprd(s21,cov,c21,1,npd,0,1,npd)
            cov(npp)=-1/s22
            do 318 j=1,npd
                cov(j+nps)=-c21(j)/s22
318      cov(npp)=cov(npp)-cov(j+nps)*s21(j)/s22
            erp=dsqrt(cov(npp))
            yf1=yf-tv*erp
            yf2=yf+tv*erp
            if(y(i).ne.0.)then
                erf=(1-yf/y(i))*100
                print 1690,i,y(i),ys,yf,erf,erp,yf1,yf2
            else
                print 1700,i,ys,yf,erp,yf1,yf2
            end if
            y(i)=yf
319 continue

```

```

        if(nlsq.eq.1) stop
        return
320  f=2*f
        return
1000 format(//)
1010 format(///'no.  variable',t21,'minimum',t36,
        +'mean',t49,'maximum',t60,'null obs.'/)
1020 format(5x,a10,3d14.5,1x,i8)
1030 format(i3,2x,a10,3d14.5,1x,i8)

1100 format(/1x,a10,' is null in the estimation period - end of run -')
1110 format(/1x,a10,' is null in the estimation period - end of run -')
1130 format(87x'E L A S T I C I T Y'3x'E L A S T I C I T Y'/4x
        +'VARIABLE'5x'LAMBDA(X)'4x'COEFFICIENT'6x'MEAN(X)'7x'STD-ERROR'4x
        +'STUDENT-T'4x'y(sample)'2x'E(y)'7x'y(sample)'2x'E(y)'/98x
        +'SIGMA(y)'14x'SIGMA(y)'/98x'GAMMA(y)'14x'GAMMA(y)'/16x
        +'type group'60x'-first obs'i8,4x'-first obs'i8/
        +87x'-last obs 'i8,4x'-last obs 'i8)

1140 format(i3,1xa10,3xa2,5xi1,2x,3d15.7,f11.4,1x,4f11.4/84x,2
        +(11x,f11.4),/84x,2(11x,f11.4))
1150 format(///,'Derivatives of y(sample), E(y), SIGMA(y) and GAMMA(y)'
        +'with respect to the Independent Variables at the sample means'
        +//4x,'Variable',t17,'Der.y(sample)',t32,'Der.E(y)'
        +,t47,'Der.SIGMA(y)',t62,'Der.GAMMA(y)'/)
1160 format(i3,1x,a10,4d15.7/)
1170 format(///,t11,1hy,t21,4he(y),t31,6hy-e(y),t43,3hy**,t53,6he(y**),
        +t65,4hx**b,t72,10hy**-e(y**),t85,8hy**-x**b,t97,32
        +hplot of residuals w = y** - x**b/)
1180 format(i4,8d11.4,a2,37a1)
1190 format(//'Mean probability of y to be at the lower (upper) limit'/
        +'if lambda(y) is positive (negative) =',f7.4)
1210 format(//'E(y) at the means      : ',d15.7)
1220 format(//'Sig(y) at the means : ',d15.7, //'C.o.V. at the means : '
        +,f15.7)
1230 format(//'Gam(y) at the means : ',f15.7)
1240 format(//'Pearson-R2',10x,': ',f15.7//'Pearson-R2 bar',6x,': ',
        +f15.7)
1250 format(//'Pseudo-(1)-R2',7x,': ',f15.7//'Pseudo-(1)-R2 bar',3x,': ',
        +f15.7)
1260 format(//'Error Variance',6x,': ',d15.7)
1270 format(//'Log-likelihood',6x,': ',d15.7)
1280 format(///,'residuals (w) listed by ',a8///)
1290 format(3x,12i10)
1300 format(//)
1310 format(/i5,2x,12d10.3)
1320 format(///,'Plots of residuals (u,v,w) around their means '///)
1330 format(6x,a8,5x,'u',9x,'Mean (u) =',d14.7,5x,'v',9x,'Mean (v) =',
        +d14.7,5x,'w',9x,'Mean (w) =',d14.7/)
1340 format(i4,2d10.3,29a1,d10.3,29a1,d10.3,29a1)
1350 format(///,'covariance matrix of the parameters'///)
1360 format(/i4,10d12.5/(4x10d12.5))
1370 format(87x'E L A S T I C I T Y'3x'E L A S T I C I T Y'/4x
        +'VARIABLE'5x'LAMBDA(X)'4x'COEFFICIENT'5x'GRADIENT'7x'STD-ERROR'4x
        +'STUDENT-T'4x'y(sample)'2x'E(y)'7x'y(sample)'2x'E(y)'/98x
        +'SIGMA(y)'14x'SIGMA(y)'/98x'GAMMA(y)'14x'GAMMA(y)'/16x
        +'type group'60x'-first obs'i8,4x'-first obs'i8/
        +87x,'-last obs 'i8,4x,'-last obs 'i8)

1380 format(a8,2x,a9,i4)

```



```

1390 format(14i5)
1400 format(a8,a2,i2,d20.12,4f12.4/(4d20.12))
1401 format(a8,4x,d20.12,4f12.4/(4d20.12))
1402 format(a8,4x,d20.12,24x,2f12.4/(4d20.12))
1410 format(i3,1xa10,3xa2,5xi1,2x,3d15.7,f11.4,1x,4f11.4/57x,d15.7,
+ f11.4,1x,2(11x,f11.4)/84x,2(11x,f11.4))
1420 format(4x'Autocorrelation'/)
1430 format(i2,f8.3,2f8.2)
1440 format(i3' rho 'i2,17x3d15.7,f11.4/57x,d15.7,f11.4/)
1450 format(4x'Box-cox on (x)'/)
1460 format(f8.3,2f8.2)
1470 format(i3' lambda(x)'i2,12x3d15.7,f11.4/72xf11.4/)
1480 format(i3' lambda(x)'i2' = lambda(y)'3d15.7,f11.4/72xf11.4/)
1490 format(i2)
1500 format(4x'Box-cox on (y)'/)
1510 format(i3' lambda(y)'14x3d15.7,f11.4/72xf11.4/)
1520 format(4x'Heteroskedasticity'/)
1540 format(i3' delta'i2,16x3d15.7,f11.4,1x,4f11.4/57x,d15.7,
+ f11.4,1x,2(11x,f11.4)/84x,2(11x,d11.4))
1550 format(i3' lambda(z)'i2,12x3d15.7,f11.4/72xf11.4/)
1560 format(4x'Residual (w)'/'i3' error variance'9x3d15.7,f11.4/57x,d15
+ .7,f11.4/)
1570 format(10f8.3)
1580 format(6f10.3/(3d20.12))
1590 format(//'Log-likelihood'//4x'- initial value : 'f15.4//4x
+ '- final value : 'f15.4//4x'- ratio test : 'f15.4//2x
+ 'Pearson-r2 : ',3x,f15.4//2x'Pearson-r2 bar : ',3x,f15.4//2x
+ 'Pseudo-(1)-r2 : 'f15.4//2x'Pseudo-(1)-r2 bar : 'f15.4//2x
+ 'Std-error of (w) : 'f15.4/)
1600 format(//2x'Number of observations'4x'first-last obs.no.'/)
1610 format(4x'- sample : 'i7,11x,'1 - 'i7/)
1620 format(4x'- estimation : 'i7,5x,i7' - 'i7/)
1630 format(4x'- prediction : 'i7,5x,i7' - 'i7)
1640 format(///'Prediction of the dependent variable for 'i2' periods'
+ //'period'5x'observed'6x'simulated'3x'max. likelihood'4x'error of'
+ 5x'std-error of'4x'95% confidence interval'/2x'no.'7x'value'10x
+ 'value'5x'predicted value'2x'forecast in %'4x'forecast'5x
+ 'lower bound'4x'upper bound'/)
1650 format(i5,5x,'two complex roots - end of run -')
1660 format(i5,5x,'two negative roots - end of run -')
1670 format(i5,5x,'simulated value cannot be computed - end of run -')
1680 format(i5,5x,
+ 'the second derivative is not negative - end of run -')
1690 format(1x,i4,1x,3d15.7,4x,f7.2,4x,3d15.7/)
1700 format(1x,i4,16x,2d15.7,15x,3d15.7/)
end

```

```

c
c .....
c
c      subroutine gmadd
c
c      purpose
c          add two general matrices to form resultant general matrix
c
c      usage
c          call gmadd(a,b,r,n,m)
c
c      description of parameters
c          a - name of first input matrix

```

```

c      b - name of second input matrix
c      r - name of output matrix
c      n - number of rows in a,b,r
c      m - number of columns in a,b,r
c
c      remarks
c      all matrices must be stored as general matrices
c
c      subroutines and function subprograms required
c      none
c
c      method
c      addition is performed element by element
c
c      .....
c
c      subroutine gmadd(a,b,r,n,m)
c      implicit double precision (a-h,o-z)
c      dimension a(1),b(1),r(1)
c
c      calculate number of elements
c
c      nm=n*m
c
c      add matrices
c
c      do 10 i=1,nm
10  r(i)=a(i)+b(i)
c      return
c      end
c
c      .....
c
c      subroutine gmprd
c
c      purpose
c      multiply two general matrices to form a resultant general
c      matrix
c
c      usage
c      call gmprd(a,b,r,n,m,l)
c
c      description of parameters
c      a - name of first input matrix
c      b - name of second input matrix
c      r - name of output matrix
c      n - number of rows in a
c      m - number of columns in a and rows in b
c      l - number of columns in b
c
c      remarks
c      all matrices must be stored as general matrices
c      matrix r cannot be in the same location as matrix a
c      matrix r cannot be in the same location as matrix b
c      number of columns of matrix a must be equal to number of row
c      of matrix b
c
c      subroutines and function subprograms required
c      none

```

```

c
c      method
c      the m by 1 matrix b is premultiplied by the n by m matrix a
c      and the result is stored in the n by 1 matrix r.
c
c      .....
c
c      subroutine gmprd(a,b,r,n,m,l)
c      implicit double precision (a-h,o-z)
c      dimension a(1),b(1),r(1)
c
c      ir=0
c      ik=-m
c      do 10 k=1,l
c      ik=ik+m
c      do 10 j=1,n
c      ir=ir+1
c      ji=j-n
c      ib=ik
c      r(ir)=0
c      do 10 i=1,m
c      ji=ji+n
c      ib=ib+1
10  r(ir)=r(ir)+a(ji)*b(ib)
c      return
c      end
c
c      .....
c
c      subroutine gmsub
c
c      purpose
c      subtract one general matrix from another to form resultant
c      matrix
c
c      usage
c      call gmsub(a,b,r,n,m)
c
c      description of parameters
c      a - name of first input matrix
c      b - name of second input matrix
c      r - name of output matrix
c      n - number of rows in a,b,r
c      m - number of columns in a,b,r
c
c      remarks
c      all matrices must be stored as general matrices
c
c      subroutines and function subprograms required
c      none
c
c      method
c      matrix b elements are subtracted from corresponding matrix a
c      elements
c
c      .....
c
c      subroutine gmsub(a,b,r,n,m)
c      implicit double precision (a-h,o-z)

```

```

dimension a(1),b(1),r(1)
c
c      calculate number of elements
c
nm=n*m
c
c      subtract matrices
c
do 10 i=1,nm
10 r(i)=a(i)-b(i)
return
end

c
c .....
c
c      subroutine gtprd
c
c      purpose
c      premultiply a general matrix by the transpose of another
c      general matrix
c
c      usage
c      call gtprd(a,b,r,n,m,l)
c
c      description of parameters
c      a - name of first input matrix
c      b - name of second input matrix
c      r - name of output matrix
c      n - number of rows in a and b
c      m - number of columns in a and rows in r
c      l - number of columns in b and r
c
c      remarks
c      matrix r cannot be in the same location as matrix a
c      matrix r cannot be in the same location as matrix b
c      all matrices must be stored as general matrices
c
c      subroutines and function subprograms required
c      none
c
c      method
c      matrix transpose of a is not actually calculated. instead,
c      elements of matrix a are taken columnwise rather than
c      rowwise for postmultiplication by matrix b.
c
c .....
c
c      subroutine gtprd(a,b,r,n,m,l)
c      implicit double precision (a-h,o-z)
c      dimension a(1),b(1),r(1)
c
c      ir=0
c      ik=-n
c      do 10 k=1,l
c      ij=0
c      ik=ik+n
c      do 10 j=1,m
c      ib=ik
c      ir=ir+1

```

```

      r(ir)=0.
      do 10 i=1,n
        ij=ij+1
        ib=ib+1
10    r(ir)=r(ir)+a(ij)*b(ib)
      return
      end

```

c
c
c

```

      .....

      subroutine invert(b,n,d,a)
      implicit double precision (a-h,o-z)
      dimension a(36,36), l(36), m(36), b(36,36)
      do 2 i=1,n
        do 2 j=i,n
          a(i,j)=b(i,j)
2    a(j,i)=b(j,i)
      d=1.0
      do 80 k=1,n
        l(k)=k
        m(k)=k
        biga=a(k,k)
        do20 i=k,n
          do20 j=k,n
          if(dabs(biga)-dabs(a(i,j))) 10,20,20
10    biga=a(i,j)
        l(k)=i
        m(k)=j
20    continue
        j=l(k)
        if(l(k)-k) 35,35,25
25    do30 i=1,n
        hold=-a(k,i)
        a(k,i)=a(j,i)
30    a(j,i)=hold
35    i=m(k)
        if(m(k)-k) 48,48,37
37    do 40 j=1,n
        hold=-a(j,k)
        a(j,k)=a(j,i)
40    a(j,i)=hold
48    do 55 i=1,n
46    if(i-k) 50,55,50
50    a(i,k)=a(i,k)/(-a(k,k))
55    continue
        do 65 i=1,n
          do 65 j=1,n
56    if(i-k) 57,65,57
57    if(j-k) 60,65,60
60    a(i,j)=a(i,k)*a(k,j)+a(i,j)
65    continue
          do 75 j=1,n
80    if(j-k) 70,75,70
70    a(k,j)=a(k,j)/a(k,k)
75    continue
          d=d*a(k,k)
          a(k,k)=1.0/a(k,k)
80    continue
      k=n

```

```

100 k=(k-1)
    if(k) 150,150,103
103 i=l(k)
    if(i-k) 120,120,105
105 do 110 j=1,n
    hold=a(j,k)
    a(j,k)=-a(j,i)
110 a(j,i)=hold
120 j=m(k)
    if(j-k) 100,100,125
125 do 130 i=1,n
    hold=a(k,i)
    a(k,i)=-a(j,i)
130 a(j,i)=hold
    go to 100
150 return
    end

    program levell
C*****
C    PROGRAM LEVEL L-1.6:
C    Compiled with COMPAQ VISUAL FORTRAN 6.6 (January 2012)
C
C    PUBLICATION AJD-105
C    LEVEL: The L-1.6 estimation procedures for BC-GAUHESEQ (Box-Cox
C    Generalized AUToregressive HETeroskedastic Single Equation) regression
C    and multimoment analysis.
C    by Cong-Liem Tran, Marc Gaudry and Marcel Dagenais,
C    Agora Jules Dupuit, Universite de Montreal, April 2008.
C*****
C    UNIT=1,2,3,4 are used in subroutine FCN:
C
C    - UNIT=1(formatted): write estimation results for program TABLEX standard;
C    - UNIT=2(formatted): input read for the dependent and independent
variables;
C    - UNIT=3(formatted): write Obs.no., E(Y) and its derivatives with respect
to X.
C    - UNIT=4(formatted); write 3 elements: name of each independent variable
X,
C
C    student-t conditional, elasticity of Y with respect
C    to each X (Don't store the regression constant) which
C    will be used in program TABQDF.
C    This version can handle the daily series (k=96 lags for the autocorrelation
C    function, and l=36 lags for the partial autocorrelation function).
C
C
C*****
C    static space allocation :
C    working vector (w) is dimensioned at 40000 and
C    its length (lw) is set in data statement.
C    if more space is needed, change dimension w(...) and data lw/.../
C
C    all the subroutines contain variable dimensions so that
C    no dimension change is required.
C*****
C    implicit double precision (a-h,o-z)
C    character*3 varnum
C    character*9 varname
C    character*30 TabFile
C    character*30 EyFile

```

```

dimension w(500000)
common/block1/nc,nf,nfp,nobel,nm
common/block2/nb,nro,ns1,ngf,ngv,nly,ndm,nle,nd
common/block3/ncor,nres,npw,nguvw,npdql,ncov,ney,nvariant,varname
common/block4/l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15,
+ l16,l17,l18,l19,l20,l21,l22,l23,l24,l25,l26,l27,l28,l29,l30,
+ l31,l32,l33,l34,l35,l36,l37,l38,l39,l40,l41
namelist/card1/nobs,nc,nf,nfp,nobel,nm,nstep,epsi,wght
namelist/card2/nb,nro,ns1,ngf,maxf,ngv,maxv,nly,ndm,nle,nd
namelist/card3/ncor,nres,npw,nguvw,npdql,ncov,ney,varname,nvariant
data lw/500000/
data w/500000*0.d0/

c
    call cputime(1)

c
    read card1
    read card2
    read card3
    print card1
    print card2
    print card3

c Open TabFile to write results of an estimated variant.
c This file will be used as input to TABLEX program.
    ncar=LNBLNK(varname)
    if(nvariant.lt.10)then
        encode(16,101,varnum)nvariant
101      format(i1)
        TabFile=varname(1:ncar)//varnum(1:1)//'.tab'
        EyFile=varname(1:ncar)//varnum(1:1)//'_E(Y) '///'.txt'
    elseif(nvariant.lt.100)then
        encode(16,102,varnum)nvariant
102      format(i2)
        TabFile=varname(1:ncar)//varnum(1:2)//'.tab'
        EyFile=varname(1:ncar)//varnum(1:2)//'_E(Y) '///'.txt'
    else
        encode(16,103,varnum)nvariant
103      format(i3)
        TabFile=varname(1:ncar)//varnum(1:3)//'.tab'
        EyFile=varname(1:ncar)//varnum(1:3)//'_E(Y) '///'.txt'
    endif

    open(unit=1,file=TabFile)

c Open EyFile to write E(Y) and its derivatives with respect to X.
    if(ney.eq.1)open(unit=3,file=EyFile)

    npar=nro+ngv
    if(nly.eq.1)npar=npar+1
    if(ndm.eq.1)npar=npar+nd
    if(nle.eq.1)npar=npar+nd
    nrod=nro
    ngfd=ngf
    ngvd=ngv
    ndd=nd
    if(nro.eq.0)nrod=1
    if(ngf.eq.0)ngfd=1
    if(ngv.eq.0)ngvd=1
    if(nd.eq.0)ndd=1
    if(maxf.eq.0)maxf=1

```

```

if (maxv.eq.0) maxv=1
nobqm=nobs
if (npw.eq.1) nobqm=nobs+4
if (npw.eq.2) nobqm=nobs+12
nb1=nb+1
nb2=nb1+1
nbm=nb1+nm
nxx=(nbm*(nbm+1))/2
nper=nfp-nf
npa1=nb2+npa
nbp=(npa1*(npa1+1))/2
npa2=npa1+nper
ncc=(npa2*(npa2+1))/2
m2=1+npa
m3=m2+npa
m4=m3+npa
m5=m4+npa
m6=m5+npa
m7=m6+npa
m8=m7+npa
m9=m8+npa
m10=m9+npa*npa
mast=m10+npa*npa-1
l1=1
l2=l1+ngfd
l3=l2+ngvd
l4=l3+nrod
l5=l4+nrod
l6=l5+nrod
l7=l6+nrod
l8=l7+nrod
l9=l8+nrod*nbm
l10=l9+ndd
l11=l10+ndd
l12=l11+nbm
l13=l12+nbm
l14=l13+nbm
l15=l14+nobs*nbm
l16=l15+nobs*nbm
l17=l16+nbm*2
l18=l17+nbm
l19=l18+nbm
l20=l19+nbm
l21=l20+nobs
l22=l21+nobs
l23=l22+nobs
l24=l23+nobs
l25=l24+nobqm
l26=l25+nobs
l27=l26+nobs
l28=l27+nobs*3
l29=l28+nxx
l30=l29+ncc
l31=l30+nbp
l32=l31+nb1*2
l33=l32+nb1*2
l34=l33+nb1*2
l35=l34+nb1*2
l36=l35+nb1*2
l37=l36+npa1

```



```

138=137+npa1
139=138+npa1
140=139+npa1
141=140+npa2
last=141+npa2-1
mtot=mast+last
if(mtot.gt.lw)go to 1
print 50,mtot,lw
50 format(///'Working space used :',i6,' out of 'i6)
   call mincon(w(1),w(m2),w(m3),w(m4),w(m5),w(m6),w(m7),w(m8),w(m9),
+w(m10),w(mast+1),wght,npar,nstep,epsi,nrod,ngfd,ngvd,ndd,
+nb1,nb2,nbm,nobs,nxx,nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
   go to 2
1 print 100,mtot,lw
100 format(///,'Working space must be at least',i6,'.',
+/, 'The current working space is set at',i6,'.',
+/, 'Program stop ...')
2 close(1)
  close(4)
  call cputime(2)
  stop
  end

c
c .....
c
c   subroutine loc
c
c   purpose
c       compute a vector subscript for an element in a matrix of
c       specified storage mode
c
c   usage
c       call loc (i,j,ir,n,m,ms)
c
c   description of parameters
c       i   - row number of element
c       j   - column number of element
c       ir  - resultant vector subscript
c       n   - number of rows in matrix
c       m   - number of columns in matrix
c       ms  - one digit number for storage mode of matrix
c           0 - general
c           1 - symmetric
c           2 - diagonal
c
c   remarks
c       none
c
c   subroutines and function subprograms required
c       none
c
c   method
c       ms=0  subscript is computed for a matrix with n*m elements
c             in storage (general matrix)
c       ms=1  subscript is computed for a matrix with n*(n+1)/2 in
c             storage (upper triangle of symmetric matrix). if
c             element is in lower triangular portion, subscript is
c             corresponding element in upper triangle.
c       ms=2  subscript is computed for a matrix with n elements
c             in storage (diagonal elements of diagonal matrix).

```

```

c          if element is not on diagonal (and therefore not in
c          storage), ir is set to zero.
c
c          .....
c
c          subroutine loc(i,j,ir,n,m,ms)
c
c              ix=i
c              jx=j
c              if(ms-1) 10,20,30
10  irx=n*(jx-1)+ix
c              go to 36
20  if(ix-jx) 22,24,24
22  irx=ix+(jx*jx-jx)/2
c              go to 36
24  irx=jx+(ix*ix-ix)/2
c              go to 36
30  irx=0
c              if(ix-jx) 36,32,36
32  irx=ix
36  ir=irx
c              return
c              end
c
c          .....
c
c          subroutine mata
c
c          purpose
c              premultiply a matrix by its transpose to form a
c              symmetric matrix
c
c          usage
c              call mata(a,r,n,m,ms)
c
c          description of parameters
c              a - name of input matrix
c              r - name of output matrix
c              n - number of rows in a
c              m - number of columns in a. also number of rows and
c                  number of columns of r.
c              ms - one digit number for storage mode of matrix a
c                  0 - general
c                  1 - symmetric
c                  2 - diagonal
c
c          remarks
c              matrix r cannot be in the same location as matrix a
c              matrix r is always a symmetric matrix with a storage mode=1
c
c          subroutines and function subprograms required
c              loc
c
c          method
c              calculation of (a transpose a) results in a symmetric matrix
c              regardless of the storage mode of the input matrix. the
c              elements of matrix a are not changed.
c
c          .....

```

```

c
      subroutine mata(a,r,n,m,ms)
      implicit double precision (a-h,o-z)
      dimension a(1),r(1)
c
      do 60 k=1,m
      kx=(k*k-k)/2
      do 60 j=1,m
      if(j-k) 10,10,60
10  ir=j+kx
      r(ir)=0.
      do 160 i=1,n
      if(ms) 20,40,20
20  call loc(i,j,ia,n,m,ms)
      call loc(i,k,ib,n,m,ms)
      if(ia) 30,160,30
30  if(ib) 50,160,50
40  ia=n*(j-1)+i
      ib=n*(k-1)+i
50  r(ir)=r(ir)+a(ia)*a(ib)
160 continue
60  continue
      return
      end

c
c .....
c
c      subroutine mfsd
c
c      purpose
c          factor a given symmetric positive definite matrix
c
c      usage
c          call mfsd(a,n,eps,ier)
c
c      description of parameters
c          a      - upper triangular part of the given symmetric
c                  positive definite n by n coefficient matrix.
c                  on return a contains the resultant upper
c                  triangular matrix.
c          n      - the number of rows (columns) in given matrix.
c          eps    - an input constant which is used as relative
c                  tolerance for test on loss of significance.
c          ier    - resulting error parameter coded as follows
c                  ier=0  - no error
c                  ier=-1 - no result because of wrong input parame-
c                          ter n or because some radicand is non-
c                          positive (matrix a is not positive
c                          definite, possibly due to loss of signi-
c                          ficance)
c                  ier=k  - warning which indicates loss of signifi-
c                          cance. the radicand formed at factoriza-
c                          tion step k+1 was still positive but no
c                          longer greater than abs(eps*a(k+1,k+1)).
c
c      remarks
c          the upper triangular part of given matrix is assumed to be
c          stored columnwise in n*(n+1)/2 successive storage locations.
c          in the same storage locations the resulting upper triangu-

```

```

c      lar matrix is stored columnwise too.
c      the procedure gives results if n is greater than 0 and all
c      calculated radicands are positive.
c      the product of returned diagonal terms is equal to the
c      square-root of the determinant of the given matrix.
c
c      subroutines and function subprograms required
c      none
c
c      method
c      solution is done using the square-root method of cholesky.
c      the given matrix is represented as product of two triangular
c      matrices, where the left hand factor is the transpose of
c      the returned right hand factor.
c
c      .....
c
c      subroutine mfsd(a,n,eps,ier)
c
c      implicit double precision (a-h,o-z)
c      dimension a(1)
c
c      test on wrong input parameter n
c      if(n-1) 12,1,1
1 ier=0
c
c      initialize diagonal-loop
c      kpiv=0
c      do 11 k=1,n
c      kpiv=kpiv+k
c      ind=kpiv
c      lend=k-1
c
c      calculate tolerance
c      tol=dabs(eps*a(kpiv))
c
c      start factorization-loop over k-th row
c      do 11 i=k,n
c      dsum=0.d0
c      if(lend) 2,4,2
c
c      start inner loop
2 do 3 l=1,lend
c      lanf=kpiv-l
c      lind=ind-l
3 dsum=dsum+a(lanf)*a(lind)
c      end of inner loop
c
c      transform element a(ind)
4 dsum=a(ind)-dsum
c      if(i-k) 10,5,10
c
c      test for negative pivot element and for loss of significance
5 if(dsum-tol) 6,6,9
6 if(dsum) 12,12,7
7 if(ier) 8,8,9
8 ier=k-1
c
c      compute pivot element

```

```

9 dpiv=dsqrt(dsum)
  a(kpiv)=dpiv
  dpiv=1.d0/dpiv
  go to 11
c
c      calculate terms in row
10 a(ind)=dsum*dpiv
11 ind=ind+i
c
c      end of diagonal-loop
  return
12 ier=-1
  return
  end

c
c      .....
c
c      subroutine mincon(s,d,y,x,g,p,wt,dirin,et,xs,w,wght,npar,nstep,
+epsi,nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,nper,
+npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
c
c      this subroutine contains two minimization algorithms :
c      1- r.fletcher and m.j.d.powell,"a rapidly convergent descent method
c         for minimization", computer journal,6,pp.163,168 (1963),
c      2- m.j.d.powell,"an efficient method for finding the minimum of a
c         function of several variables without calculating derivatives",
c         computer journal,7,pp.155,162 (1964).
c      implicit double precision (a-h,o-z)
c      logical dercal
c      dimension s(npar),d(npar),y(npar),x(npar),g(npar),p(npar)
c      dimension wt(npar),dirin(npar),et(npar,npar),xs(npar,npar),w(*)
c      dimension isw(6),e(2)
c      common/block1/nc,nf,nfp,nobel,nm
c      common/block4/l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15,
+l16,l17,l18,l19,l20,l21,l22,l23,l24,l25,l26,l27,l28,l29,l30,
+l31,l32,l33,l34,l35,l36,l37,l38,l39,l40,l41
c      data isw/4*0,1,0/
44 format( /,'the run has been terminated since no improvement can be
   1 found on the current minimum,/' the parameters of which follow -
   2 - f,x(i)')
105 format (2(/),'initialization cards for control routine follow - -
   1 lid card - no. parameters , no. steps , step size ',/,'minimization
   2 tolerance - starting values of parameters - relative uncertaintie
   3s of parameters (error estimates) - ',/,'and starting direction (r
   4relative parameter increments for 1st step)'/)
110 format ('identification line
   1
   ')
120 format(2i10,2d10.1)
130 format (10d13.5)
280 format (/,'first entry to fcn , parameters of current step follow
   1- - f,x(i)')
324 format(10d13.5)
326 format(//'estimated variance matrix')
329 format(//'estimated standard deviations'/(10d13.5))
435 format (d19.10,8d13.5/(19x8d13.5))
436 format(19x8d13.5)
750 format (/,'new absolute minimum , parameters for fcn entry ',i5,
   1' follow - - f,x(i)')
785 format (/,'step to unallowed region , parameters for fcn entry',

```

```

1i5,' follow - - x(i)')
799 format (//,'ten consecutive steps to unallowed region - - run termi
lnated')
840 format (//,'all numbers of last entry refer to final pt. of run')
859 format (//,'parameters are stored on tape3 for run continuation')
865 format (//,'the lowest value of the function (fcn) was ',d18.10,
1' for entry',i5,' - - x(i) follows')
875 format(///,'run statistics follow - -'///'nfcn=i5,' nst=i5)
911 format(//,'there have not been enough steps in the minimisation to
lmake error estimates')
912 format(///'error analysis assuming chi-square')
913 format(///'error analysis assuming -log likelihood')
1830 format (///'the function (fcn) has not improved by ',d14.5,' after
13 steps which include a minimum - -'///'therefore the run has be
2en terminated')
read 110
step=1.
al=3.
be=-.4
gam=-2./(al*be)
neq=0
step = dabs(step)
116 if (step) 124,124,125
124 step=1.0
125 continue
nor=0
amin=1.d300
call fcn(npars,g,amin,x,1,w(11),w(12),w(13),w(14),w(15),w(16),w(17)
+,w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
do 9100 i=1,npars
dirin(i)=0.
9100 wt(i)=wght
print 105
print 110
print 120,npars,nstep,step,epsi
print 130,(x(i),i=1,npars)
print 130,(wt(i),i=1,npars)
print 130,(dirin(i),i=1,npars)
nfcn=1
f=amin
a=amin
nst=0
avr=amin
print 280
print 435,amin,(x(i),i=1,npars)
df=vp(g,g,npars)
if(df)88,89,88
88 dercal=.true.
sp=step/df
do 1039 i=1,npars
do 1031 j=1,npars
1031 et(i,j)=0.
1039 et(i,i)=dabs(wt(i))
1006 ast=amin
do 1008 i=1,npars

```

```

        d(i)=g(i)
        dirin(i)=0.
        do 1008 j=1,npar
1008  dirin(i)=dirin(i)-et(i,j)*g(j)
        df=vp(dirin,g,npar)
        if(df)1003,43,1003
1003  continue
        de=df
        ss=sp
        if(ss)1048,1049,1048
1049  ss=-step/df
1048  continue
        sp=0.
        do 1007 j=1,4
1010  if(dabs(ss*df/amin).ge.1.d-10)go to 1074
        if(d(1).ne.g(1))go to 1012
1074  st=ss
        do 1004 i=1,npar
1004  y(i)=x(i)+st*dirin(i)
        fa=f
        call fcn(npar,p,f,y,2,w(11),w(12),w(13),w(14),w(15),w(16),w(17),
+       w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+       w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+       w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+       w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+       nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+       nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
        nfcfn=nfcfn+1
        if(dabs(f/fa-2.)-1.d-6)1081,1080,1080
1081  nor=nor+1
        ss=.5*st
        if(isw(5))1085,1086,1085
1085  print 785, nfcfn
        print 436, (y(i),i=1,npar)
1086  if(nor-10)1007,1007,89
1080  nor=0
        dg=vp(dirin,p,npar)
1018  if(dabs(dg/df)-1.d10)1078,1079,1079
1079  ss=.2*st
        go to 1010
1078  da=f-amin
        db=da/st
        b=(dg+df+df-3.*db)/st
        c=3.*(df+dg-db-db)/st**2
        if(c)900,901,900
        901  if(b)1057,1057,902
        902  ss=df*.5/b
        go to 903
        900  dfg=b*b-df*c
        if(dfg)1057,1070,1070
1057  if(da)1059,1056,1056
1056  ss=-st
        go to 1007
1070  ss=(b+dsqrt(dfg))/c
        903  if(da)1009,1007,1007
1059  ss=st*4.
1009  amin=f
        npfn=nfcfn
        do 1011 i=1,npar
        g(i)=p(i)

```

```

1011 x(i)=y(i)
      df=dg
      sp=sp+st
1058 ss=ss-st
      go to 1010
1007 continue
      go to 1005
1012 continue
      do 1013 i=1,npar
1013 d(i)=g(i)-d(i)
      da=0.
      db=0.
      do 1014 i=1,npar
        y(i)=0.
      do 1015 j=1,npar
1015 y(i)=y(i)+et(i,j)*d(j)
      da=da+dirin(i)*d(i)
1014 db=db+d(i)*y(i)
      da=sp/da
      do 1016 i=1,npar
        do 1016 j=i,npar
          et(i,j)=et(i,j)+dirin(i)*dirin(j)*da-y(i)*y(j)/db
1016 et(j,i)=et(i,j)
1005 nst=nst+1
      if (isw(5))1742,1755,1742
1742 if(avr-amin)1755,1755,1744
1744 print 750, npfn
      print 435,amin,(x(i),i=1,npar)
      avr=amin
1755 continue
1334 if (isw(1))810,1808,810
1808 if (nst-nstep)1035,810,810
1035 continue
      ame=amin-ast
      go to 40
      89 dercal=.false.
      np=0
      do 39 i=1,npar
        if(wt(i))30,39,30
30 np=np+1
      do 31 j=1,npar
31 xs(np,j)=0.
      s(np)=0.
      xs(np,i)=1.
      if(dirin(i))33,34,33
34 dirin(i)=wt(i)
33 dirin(np)=dirin(i)*step
39 continue
      np1=np+1
      s(np1)=0.
15 continue
      do 53 i=1,npar
53 xs(np1,i)=xs(1,i)
      dirin(np1)=dirin(1)
      am=0.
      jm=0
      do 35 j=1,np1
        y1=1.
        ne=0
        ns=0

```



```

      d(j)=0.
6  do 1 i=1,npar
1  y(i)=x(i)+dirin(j)*xs(j,i)
    sa=a
    call fcn(npar,g,a,y,4,w(11),w(12),w(13),w(14),w(15),w(16),w(17),
+w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
    nfcfn=nfcfn+1
    if(dabs(a/sa-2.)-1.d-6) 99,98,98
99 nor=nor+1
    if(isw(5)) 97,96,97
97 print 785, nfcfn
    print 436, (y(i),i=1,npar)
96 if(nor-10) 3,3,95
95 print 799
    go to 810
98 nor=0
16 y2=amin-a
    if(y2) 3,18,2
18 if(y1) 38,25,38
    2 ne=0
    amin=a
38 y1=y2
    npfn=nfcfn
    do 4 i=1,npar
4  x(i)=y(i)
    d(j)=d(j)+dirin(j)
    dirin(j)=a1*dirin(j)
    ns=1
    go to 6
3  dirin(j)=be*dirin(j)
    if(ns) 5, 6,5
    5 if(nfcfn) 25,45,45
45 if(y1) 24,36,24
36 if(ne) 37,37,25
37 dirin(j)=gam*dirin(j)
    ne=1
    go to 6
24 x2=dirin(j)/be
    x1=x2/a1
    da=x2*y1
    db=x1*y2
    stj=.5*(da*x2+db*x1)/(da-db)
    if(stj) 27,25,27
27 do 26 i=1,npar
26 y(i)=x(i)+stj*xs(j,i)
    sa=a
    call fcn(npar,g,a,y,4,w(11),w(12),w(13),w(14),w(15),w(16),w(17),
+w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
    nfcfn=nfcfn+1
    if(dabs(a/sa-2.)-1.d-6) 94,93,93

```

```

94 if(isw(5)) 92,25,92
92 print 785, nfcn
   print 436, (y(i),i=1,npar)
   go to 25
93 if(a-amin)28,25,25
28 amin=a
   npfn=nfcn
   do 32 i=1,npar
32 x(i)=y(i)
   d(j)=d(j)+stj
25 continue
   nst=nst+1
   av=avr-amin
   avr=amin
   if(j-1)741,741,748
741 ast=amin
   go to 743
748 if(av-am)743,743,747
747 am=av
   jm=j
743 if (isw(5)) 742,755,742
742 if(av)755,755,744
744 print 750, npfn
   print 435,amin,(x(i),i=1,npar)
755 continue
334 if (isw(1)) 810,808,810
808 if (nst-nstep) 35 ,810,810
35 continue
   ame=amin-ast
   if(ame)40,43,43
43 print 44
   print 435,amin,(x(i),i=1,npar)
   go to 810
40 if(eps+ame)20,41,41
41 neq=neq+1
   if(neq-3)86,21,21
86 if(dercal) go to 1006
   go to 42
21 continue
   print 1830, epsi
   print 435,amin,(x(i),i=1,npar)
810 continue
835 if (isw(5)) 838,846,838
838 print 840
846 if (isw(4)) 1850,850,1850
20 neq=0
   if(dercal) go to 1006
42 continue
   do 7 k=1,npar
   p(k)=0.
   do 7 i=2,np1
7 p(k)=p(k)+d(i)*xs(i,k)
   dp=1.
69 do 63 i=1,npar
63 y(i)=x(i)+p(i)
   sa=a
   call fcn(npar,g,a,y,4,w(11),w(12),w(13),w(14),w(15),w(16),w(17),
+ w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+ w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+ w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),

```

```

+w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
nfcn=nfcn+1
if(dabs(a/sa-2.)-1.d-6)15,15,65
65 if(a-amin)66,67,67
66 amin=a
dp=dp+dp
do 68 i=1,npar
x(i)=y(i)
68 p(i)=2.*p(i)
go to 69
67 dp=.5*(a+ast-amin-amin)/dp**2
if(dp-am)64,64,15
64 if(jm-np)61,61,62
61 do 8 i=jm,np
s(i)=s(i+1)
dirin(i)=dirin(i+1)
do 8 j=1,npar
8 xs(i,j)=xs(i+1,j)
62 xn=0.
do 14 k=1,npar
xs(1,k)=p(k)
14 xn=xn+xs(1,k)**2
dir=dsqrt(xn)
dirin(1)=dir
s(np1)=dp*2.
do 9 k=1,npar
9 xs(1,k)=xs(1,k)/dir
go to 15
910 print 911
go to 850
1850 if(nst.lt.npar) go to 910
if(nst.lt.npar**2.and..not.dercal) go to 910
if(dercal) go to 87
s(1)=s(np1)
f=amin
do 302 i=1,np
if(s(i))303,303,302
303 s(i)=1.e+4
302 p(i)=1./dsqrt(s(i))
do 312 l=1,2
311 do 301 i=1,np
309 do 308 k=1,2
do 304 j=1,npar
304 y(j)=x(j)+p(i)*xs(i,j)
fa=f
call fcn(npar,g,f,y,4,w(11),w(12),w(13),w(14),w(15),w(16),w(17),
+w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
if(dabs(f/fa-2.)-1.d-6)305,306,306
306 if(f-amin)307,307,328
307 do 310 j=1,npar
310 x(j)=y(j)
p(i)=2.*p(i)
amin=f

```

```

      go to 311
328 p(i)=-p(i)
308 e(k)=f
      s(i)=(e(1)+e(2)-amin-amin)/p(i)**2
      if(s(i))305,305,313
305 p(i)=.5*p(i)
      go to 309
313 s(i)=1./s(i)
301 p(i)=dsqrt(s(i))
312 continue
      do 316 l=1,npar
      do 316 m=1,npar
      et(l,m)=0.
      do 317 i=1,np
317 et(l,m)=et(l,m)+xs(i,l)*xs(i,m)*s(i)
316 et(m,l)=et(l,m)
      87 if(isw(6)) 1050,951,1050
951 print 913
      go to 1051
1050 print 912
      do 1022 i=1,npar
      do 1022 j=1,npar
1022 et(i,j)=2.*et(i,j)
1051 do 1023 i=1,npar
      if(et(i,i))1024,1024,1025
1024 p(i)=0.
      go to 1023
1025 p(i)=dsqrt(et(i,i))
1023 continue
      print 326
      do 327 i=1,npar
327 print 324, (et(i,j),j=1,npar)
      print 329, (p(i),i=1,npar)
850 if (isw(2)) 858,860,858
858 print 859
      print 130, (x (i),i=1,npar)
      print 130, (wt(i),i=1,npar)
      print 130, (dirin(i),i=1,npar)
860 print 865,amin,npfn
      print 130, (x (i),i=1,npar)
      print 875,nfcfn,nst
      call fcn(npar,g,amin,x,3,w(11),w(12),w(13),w(14),w(15),w(16),w(17)
+ ,w(18),w(19),w(110),w(111),w(112),w(113),w(114),w(115),w(116),
+ w(117),w(118),w(119),w(120),w(121),w(122),w(123),w(124),w(125),
+ w(126),w(127),w(128),w(129),w(130),w(131),w(132),w(133),w(134),
+ w(135),w(136),w(137),w(138),w(139),w(140),w(141),
+ nrod,ngfd,ngvd,ndd,nb1,nb2,nbm,nobs,nxx,
+ nper,npa1,nbp,npa2,ncc,maxf,maxv,nobqm)
      return
      end

      subroutine moment(y,yexp,nobs,nc,nf, ratio,r2p,r2pa,ymom,eymom)
c Compute the three moments for observed y and estimated E(y):
c First moment (mean) : ym and yexpm
c Second moment (standard error): sigy and sigyexp
c Third moment (skewness) : alpy and alpyexp
c Input:
c y : vector of observed y values
c yexp: vector of fitted E(y) values
c June 16 1999: Add the computation of Pearson's R2's: r2p and r2pa,

```

```

c          which are the Squared Correlations between "y" and "yexp",
c          unadjusted and adjusted for degrees of freedom, respectively.
c March 8 2001: Pass the values of r2p and r2pa through the arguments
c          of the subroutine.
c March 20 2001: Pass the values of ymom and eymom through the arguments
c          of the subroutine.

```

```

      implicit double precision (a-h,o-z)
      dimension y(nobs),yexp(nobs),ymom(3),eymom(3)
      n=nf-nc+1
      n1=n-1
      ym=0.d0
      yexpm=0.d0
      do 1 i=nc,nf
        ym=ym+y(i)/n
1      yexpm=yexpm+yexp(i)/n
      sigy=0.d0
      sigyexp=0.d0
      alpy=0.d0
      alpyexp=0.d0
      syyexp=0.d0
      do 2 i=nc,nf
        dy=y(i)-ym
        dyexp=yexp(i)-yexpm
        syyexp=syyexp+dy*dyexp
        sigy=sigy+dy**2
        sigyexp=sigyexp+dyexp**2
        alpy=alpy+dy**3
        alpyexp=alpyexp+dyexp**3
2      continue
      r2p=syyexp**2/(sigy*sigyexp)
      r2pa=1-ratio*(1-r2p)
      sigy=dsqrt(sigy/n1)
      sigyexp=dsqrt(sigyexp/n1)
      alpy=(alpy/n1)/sigy**3
      alpyexp=(alpyexp/n1)/sigyexp**3
c March 20 2001: create ymom and eymom for program TABLEX
      ymom(1)=ym
      ymom(2)=sigy
      ymom(3)=alpy
      eymom(1)=yexpm
      eymom(2)=sigyexp
      eymom(3)=alpyexp
      print 10,nc,nf,ym,yexpm,sigy,sigyexp,alpy,alpyexp
10      format('Estimation Sample      :',2i8,
+           //t14,'OBSERVED Y',t29,'FITTED E(Y)',
+           /'MEAN',t12,2d15.7,
+           /'STD.ERROR',t12,2d15.7,
+           /'SKEWNESS',t12,2f15.7)
      return
      end

```

```

c
c .....
c
c      subroutine mprd
c
c      purpose
c          multiply two matrices to form a resultant matrix
c

```

```

c      usage
c      call mprd(a,b,r,n,m,msa,msb,l)
c
c      description of parameters
c      a - name of first input matrix
c      b - name of second input matrix
c      r - name of output matrix
c      n - number of rows in a and r
c      m - number of columns in a and rows in b
c      msa - one digit number for storage mode of matrix a
c             0 - general
c             1 - symmetric
c             2 - diagonal
c      msb - same as msa except for matrix b
c      l - number of columns in b and r
c
c      remarks
c      matrix r cannot be in the same location as matrices a or b
c      number of columns of matrix a must be equal to number of row
c      of matrix b
c
c      subroutines and function subprograms required
c      loc
c
c      method
c      the m by l matrix b is premultiplied by the n by m matrix a
c      and the result is stored in the n by l matrix r. this is a
c      row into column product.
c      the following table shows the storage mode of the output
c      matrix for all combinations of input matrices
c
c           a           b           r
c      general      general      general
c      general      symmetric     general
c      general      diagonal      general
c      symmetric    general      general
c      symmetric    symmetric     general
c      symmetric    diagonal      general
c      diagonal     general      general
c      diagonal     symmetric     general
c      diagonal     diagonal     diagonal
c
c      .....
c
c      subroutine mprd(a,b,r,n,m,msa,msb,l)
c      implicit double precision (a-h,o-z)
c      dimension a(1),b(1),r(1)
c
c      special case for diagonal by diagonal
c
c      ms=msa*10+msb
c      if(ms-22) 30,10,30
c 10 do 20 i=1,n
c 20 r(i)=a(i)*b(i)
c      return
c
c      all other cases
c
c 30 ir=1
c      do 90 k=1,l
c      do 90 j=1,n

```

```

      r(ir)=0.
      do 80 i=1,m
        if(ms) 40,60,40
40    call loc(j,i,ia,n,m,msa)
        call loc(i,k,ib,m,l,msb)
        if(ia) 50,80,50
50    if(ib) 70,80,70
60    ia=n*(i-1)+j
        ib=m*(k-1)+i
70    r(ir)=r(ir)+a(ia)*b(ib)
80    continue
90    ir=ir+1
        return
      end

      subroutine mrs(deresa,esa,nb1,titrex)
c Input:
c   deresa   Matrix(i,j) of the Derivatives of the j-th Moment of y
c             with respect to the i-th Independent Variable X.
c             Moment Index j = 1,2,3 corresponds to E(y), SIGMA(y) and GAMMA(y)
c             respectively.

c   esa      Vector of the three moments of y at the sample means:
c             esa(1)=E(y)
c             esa(2)=SIGMA(y)
c             esa(3)=GAMMA(y)

c   nb1      Number of Independent Variables X used in regression,
c             including the CONSTANT.

c   titrex   Vector of Names of the Independent Variables X.

      implicit double precision (a-h,o-z)
      dimension deresa(100,3),esa(3),row(100)
      character*10 titrex(100),name(3)
      data name/'E(y) ','SIGMA(y) ','GAMMA(y) '/
      data ncol/10/

c Compute the Marginal Rate of Substitution (MRS) and the Elasticity of
c Substitution between two moments (E(y), SIGMA(y), GAMMA(y)),
c at the sample means.
      print 1
1     format('MRS between two moments (E(y), SIGMA(y), GAMMA(y)) '
+/'at the sample means')
      print 10
10    format(47(1h=))
      print 11,(name(j),j=1,3)
11    format(/'row / col',t14,a10,t26,a10,t38,a10)
      print 10
      do 13 j=1,3
        do 14 k=1,3
14      row(k)=deresa(nb1,j)/deresa(nb1,k)
          print 15,name(j),(row(k),k=1,3)
15      format(/a10,t12,d12.4,t24,d12.4,t36,d12.4)
13      continue
      print 2
2     format(//'Elasticity of substitution between two moments'
+/'(E(y), SIGMA(y), GAMMA(y)) at the sample means')
      print 10
      print 11,(name(j),j=1,3)

```

```

      print 10
      do 16 j=1,3
        do 17 k=1,3
17         row(k)=(deresa(nb1,j)*esa(k))/(deresa(nb1,k)*esa(j))
        print 15,name(j),(row(k),k=1,3)
16      continue
c Compute the Marginal Rate of Substitution (MRS) of X(1) with respect to X(k)
c at the sample means.
      print 3
3      format(//'MRS of X(1) with respect to X(k) at the sample means')
      npage=nb1/ncol
      if(nb1.gt.npage*ncol)npage=npage+1
      do 22 j=1,npage
        j2=j*ncol
        j1=j2-ncol+1
        if(nb1.lt.j2)j2=nb1
        print 20
20         format(131(1h=))
        print 23,(titrex(k),k=j1,j2)
23         format(8x,'X(k)',t12,10(2x,a10))
        print 24
24         format('X(1)')
        print 20
        do 25 kr=1,nb1
          do 26 kc=j1,j2
26             row(kc)=deresa(kc,1)/deresa(kr,1)
          print 27,titrex(kr),(row(k),k=j1,j2)
27             format(/a10,t12,10d12.4)
25         continue
22      continue
      return
      end

c
c .....
c
c      subroutine ndtr
c
c      purpose
c          computes  $y = p(x)$  = probability that the random variable  $u$ ,
c          distributed normally(0,1), is less than or equal to  $x$ .
c           $f(x)$ , the ordinate of the normal density at  $x$ , is also
c          computed.
c
c      usage
c          call ndtr(x,p,d)
c
c      description of parameters
c          x--input scalar for which  $p(x)$  is computed.
c          p--output probability.
c          d--output density.
c
c      remarks
c          maximum error is 0.0000007.
c
c      subroutines and subprograms required
c          none
c
c      method
c          based on approximations in c. hastings, approximations for

```



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c          digital computers, princeton univ. press, princeton, n.j.,
c          1955. see equation 26.2.17, handbook of mathematical
c          functions, abramowitz and stegun, dover publications, inc.,
c          new york.
c
c          .....
c
c          subroutine ndtr(x,p,d)
c
c          implicit double precision (a-h,o-z)
c          ax=dabs(x)
c          t=1.0/(1.0+.2316419*ax)
c Underflow for the exponential of  $y = -(x*x)/2$ 
c          d=0.
c          y=-(x*x)/2
c          if(y.ge.dlog(1.d-307))d=0.3989423*dexp(y)
c          p = 1.0 - d*t*(((1.330274*t - 1.821256)*t + 1.781478)*t -
1 0.3565638)*t + 0.3193815)
c          if(x)1,2,2
1 p=1.0-p
2 return
end

c
c          .....
c
c          subroutine pdql(z,y,x,nob,ndiff,ndlsea,lnper,nlag,nlagp)
c subroutines pdql,ac,ser,invert come from a routine package
c written by r.watts and b.sulmon (1969-1970), u. of chicago.
c
c          (1 - b)**ndiff(1 - b**(lnper ))**ndlsea (z(t))
c
c          where b = backward shift operator
c          nob = number of observations
c          ndiff = degree of non-seasonal differencing (0,1,2,3)
c          ndlsea = degree of seasonal differencing (0,1,2,3)
c          lnper = period of seasonality : lnper.lt.(nob-ndiff)/ndlsea
c          lnper is not used when ndlsea=0.
c          nlag = maximum lag of autocorrelation function (max 96)
c          nlagp = maximum lag of partial autocorrelation function (max 36)
c          implicit double precision (a-h,o-z)
c          dimension z(nob),y(nob),x(nob)
c          if(ndiff+lnper*ndlsea - nob) 15,24,24
15 if(ndiff) 24,16,16
16 if(ndiff - 3) 17,17,24
17 if(ndlsea) 24,18,18
18 if(ndlsea - 3) 19,19,24
19 if(lnper) 24,26,26
26 if(nlag) 24,24,27
27 if(nlag - 96) 30,30,24
30 if(nlag-nlagp)24,31,31
31 if(nlagp-36)25,25,24
24 continue
print 23
23 format(/,5x,'error in the parameters of pdql')
return
25 continue
print 900
900 format(///,58x,'analysis of residuals'/)
call ac(z,y,x,nob,lnper,ndiff,ndlsea,nlag,nlagp)

```

```

        return
    end

c
c .....
c
    subroutine readvar(titrey,y,titrex,x,nobs,nbm,nb,nm,z)
    double precision y(nobs),x(nobs,nbm),z(nobs)
    character*10 titrey,titrex(*),namz
    character*80 fname,fmt
c Read the file NAME of the Database containing all the dependent,independent
c and heteroskedasticity variables for the whole project.
    read 1,fname
1    format(a80)
    open(unit=2,file=fname)
c Read the INPUT FORMAT for the name and the observations of a variable
c in the Database.
    read 1,fmt
c Read the NAME of the DEPENDENT VARIABLE (Y) used in the variant.
    read 2,titrey
2    format(a10)
c Read the NAMES of the INDEPENDENT VARIABLES (X_k) used in the variant,
c beginning with the group of X without Box-Cox transformation,
c followed by the group(s) of X with fixed Box-Cox transformations
c and finally by the group(s) of X with estimated Box-Cox transformations.
    do 3 i=1,nb
        read 2,titrex(i)
3    continue
c Read the NAMES of the variables Z_m's appearing only in the
c heteroskedasticity function f(Z), but not as an independent
c variable at the same time.
    if(nm.gt.0)then
        do 9 i=1,nm
            j=i+nb+1
            read 2,titrex(j)
9        continue
    endif
    nvar=0
10   read(2,fmt,end=20)namz,(z(i),i=1,nobs)

    nvar=nvar+1

c Extract from the Database the dependent variable used in the variant.

    if(titrey.eq.namz)then
        do 4 i=1,nobs
4        y(i)=z(i)
            go to 10
        endif
c Extract from the Database the "nb" independent variables used in the variant.

        do 5 j=1,nb
            if(titrex(j).eq.namz)then
                do 6 i=1,nobs
6                x(i,j)=z(i)
                    go to 10
                endif
5            continue
        enddo
    enddo

```

c Extract from the Database the heteroskedasticity variable used in the variant.

c This variable appears only in the heteroskedasticity function, but not as an

c independent variable at the same time.

```

      if(nm.gt.0)then
        do 7 j=1,nm
          k=j+nb+1
          if(titrex(k).eq.namz)then
            do 8 i=1,nobs
8              x(i,k)=z(i)
              go to 10
            endif
7          continue
        endif
        go to 10
20      continue
      close(2)
      return
      end

c
c .....
c
      subroutine ser(mm, kk, no, nnl, nnl, e, qxz, d, f, nll)
      implicit double precision (a-h, o-z)
      dimension e(no), s1(100), s2(100), d(4, 4, 106)
      dimension pat(36, 36), cov(36, 36), f(4, 4, 37)
      m1=mm+1
      k1=kk+1
      nll=nnl+1
      cup=1.0
      sup=0.0
      nllt=nll*12+1
      nllu=nllt-11
      do 20 jj=nllu, nllt
20      d(m1, k1, jj)=0
      do 1110 jj=1, nll
        j=jj-1
        sum=0.0
        sum1=0.0
        sum2=0.0
        nq=no-j
        sq=nq
        sq1=nq-1
        do 1105 i=1, nq
          ij = i + j
          sum=sum+e(i)*e(ij)
          sum1=sum1+e(i)
1105      sum2=sum2+e(ij)
          sum3=0
          do 1111 irk=1, no
1111      sum3=sum3+e(irk)
          so=no
          i0 = 1
          s1(jj)=(sum+(sum3/so)*((sq/so)*sum3-sum1-sum2))/so
          s2(jj)=s1(jj)/s1(i0)

```

```

1110 d(m1,k1,jj)=s2(jj)
      d(m1,k1,98)=s1(i0)
      qxz=s1(i0)
      do 1115 j=1,nn1
        if(j-1) 1108,1108,1107
1107 m3=1+(j-2)*12
      m2=(j-1)*12
      do 1109 jj=m3,m2
1109 sup=sup+s2(jj)*s2(jj)
      cup=sup
1108 dnu=dsqrt((1.0+2.0*(cup-1.0))/so)
      d(m1,k1,j+98)=dnu
1115 continue
      if(nn1)1116,1116,110
110 do 101 i=1,nn1
101 pat(i,i)=1.0
      do 100 j=2,nn1
        k=nn1-j+1
        temp=d(m1,k1,j)
        do 102 i=1,k
          l=i+j-1
          pat(i,l)=temp
102 pat(l,i)=temp
100 continue
      do 103 i=1,37
103 f(m1,k1,i)=0.0
      do 201 j=1,nn1
        call invert(pat,j,d,cov)
        temp=0.0
        do 203 i=1,j
          i1=i+1
203 temp=temp+cov(j,i)*d(m1,k1,i1)
        f(m1,k1,j)=temp
201 continue
      f(m1,k1,37)=dsqrt(1.0/so)
1116 continue
      return
      end

```

```

c
c .....
c
c   subroutine sinv
c
c   purpose
c     invert a given symmetric positive definite matrix
c
c   usage
c     call sinv(a,n,eps,ier)
c
c   description of parameters
c     a      - upper triangular part of the given symmetric
c              positive definite n by n coefficient matrix.
c              on return a contains the resultant upper
c              triangular matrix.
c     n      - the number of rows (columns) in given matrix.
c     eps    - an input constant which is used as relative
c              tolerance for test on loss of significance.
c     ier    - resulting error parameter coded as follows
c              ier=0 - no error

```

```

c          ier=-1 - no result because of wrong input parame-
c                  ter n or because some radicand is non-
c                  positive (matrix a is not positive
c                  definite, possibly due to loss of signi-
c                  ficance)
c          ier=k  - warning which indicates loss of signifi-
c                  cance. the radicand formed at factoriza-
c                  tion step k+1 was still positive but no
c                  longer greater than abs(eps*a(k+1,k+1)).
c
c      remarks
c          the upper triangular part of given matrix is assumed to be
c          stored columnwise in n*(n+1)/2 successive storage locations.
c          in the same storage locations the resulting upper triangu-
c          lar matrix is stored columnwise too.
c          the procedure gives results if n is greater than 0 and all
c          calculated radicands are positive.
c
c      subroutines and function subprograms required
c          mfsd
c
c      method
c          solution is done using the factorization by subroutine mfsd.
c
c      .....
c
c      subroutine sinv(a,n,eps,ier)
c      implicit double precision (a-h,o-z)
c      dimension a(1)
c
c          factorize given matrix by means of subroutine mfsd
c          a = transpose(t) * t
c          call mfsd(a,n,eps,ier)
c          if(ier) 9,1,1
c
c          invert upper triangular matrix t
c          prepare inversion-loop
c 1 ipiv=n*(n+1)/2
c   ind=ipiv
c
c          initialize inversion-loop
c   do 6 i=1,n
c     din=1.d0/a(ipiv)
c     a(ipiv)=din
c     min=n
c     kend=i-1
c     lanf=n-kend
c     if(kend) 5,5,2
c 2 j=ind
c
c          initialize row-loop
c   do 4 k=1,kend
c     work=0.d0
c     min=min-1
c     lhor=ipiv
c     lver=j
c
c          start inner loop
c   do 3 l=lanf,min
c     lver=lver+1

```

```

        lhor=lhor+1
3 work=work+a(lver)*a(lhor)
        end of inner loop
c
c
        a(j)=-work*din
4 j=j-min
        end of row-loop
c
c
5 ipiv=ipiv-min
6 ind=ind-1
        end of inversion-loop
c
c
        calculate inverse(a) by means of inverse(t)
        inverse(a) = inverse(t) * transpose(inverse(t))
c
        initialize multiplication-loop
        do 8 i=1,n
            ipiv=ipiv+i
            j=ipiv
c
c
            initialize row-loop
            do 8 k=i,n
                work=0.d0
                lhor=j
c
c
                start inner loop
                do 7 l=k,n
                    lver=lhor+k-i
                    work=work+a(lhor)*a(lver)
7 lhor=lhor+1
                end of inner loop
c
c
            a(j)=work
8 j=j+k
        end of row- and multiplication-loop
c
c
9 return
end

c
c
c
.....

subroutine transf(par,ro,vlxv,vly,d,vle,ms,ngxy,ier)
implicit double precision (a-h,o-z)
dimension par(1),ro(1),vlxv(1),d(1),vle(1)
common/block2/nb,nro,ns1,ngf,ngv,nly,ndm,nle,nd
data eps1/20.d0/
ier=0
id=0
if(ms.eq.2)go to 20
c ms=1 : perform the fisher-z transformation on ro
c and store values of (z,vlxv,vly,d,vle) in (par)
        if(nro.eq.0)go to 2
        do 1 i=1,nro
            id=id+1
1 par(id)=dlog((1+ro(i))/(1-ro(i)))/2
2 if(ngv.eq.0)go to 4
        do 3 i=1,ngv
            id=id+1
3 par(id)=vlxv(i)
4 if(nly.ne.1)go to 6

```

```

        id=id+1
        par(id)=vly
6      if(ndm.ne.1) return
        do 7 i=1,nd
        id=id+1
7      par(id)=d(i)
        if(nle.eq.0) return
        do 8 i=1,nd
        id=id+1
8      par(id)=vle(i)
        return
c      ms=2  operation inverse
c      ms=2 : reverse operation
20     if(nro.eq.0) go to 22
        do 21 i=1,nro
        id=id+1
21     ro(i)=dtanh(par(id))
22     if(ngv.eq.0) go to 24
        do 23 i=1,ngv
        id=id+1
        if(dabs(par(id)).gt.eps1) ier=1
23     vlzv(i)=par(id)
        if(nly.eq.2) vly=vlzv(ngxy)
24     if(nly.ne.1) go to 26
        id=id+1
        if(dabs(par(id)).gt.eps1) ier=1
        vly=par(id)
26     if(ndm.ne.1) return
        do 27 i=1,nd
        id=id+1
27     d(i)=par(id)
        if(nle.eq.0) return
        do 28 i=1,nd
        id=id+1
        if(dabs(par(id)).gt.eps1) ier=1
28     vle(i)=par(id)
        return
        end

c
c      .....
c
        double precision function tvalue(df)
c      asymptotic expansion for the inverse function of the student's
c      t-distribution, in abramowitz m. and i.a. stegun : handbook of
c      mathematical functions, dover publications, new york.
        implicit double precision (a-h,o-z)
        integer df
        dimension val(5),g(4)
        data val/12.7062,4.3027,3.1824,2.7764,2.5706/
        data x/1.9600/
        if(df.gt.5) go to 1
        tvalue=val(df)
        return
1      tvalue=x
        x2=x*x
        g(1)=(x2+1)*x/4
        g(2)=((5*x2+16)*x2+3)*x/96
        g(3)=(((3*x2+19)*x2+17)*x2-15)*x/384
        g(4)=((((79*x2+776)*x2+1482)*x2-1920)*x2-945)*x/92160

```

```

        do 2 i=1,4
2   tvalue=tvalue+g(i)/(df**i)
        return
        end

c
c   .....
c
        subroutine vardec(x,xx,titrex,nobs,nr,n,nxx)
        implicit double precision (a-h,o-z)
        character*10 titrex(n)
        dimension x(nobs,n),xx(nxx)
        dimension c(50),d(50),z(2500)
        ir=0
        do 1 j1=1,n
        do 1 j2=1,j1
        ir=ir+1
1   xx(ir)=0.
        do 6 i=1,nr
        ir=0
        do 6 j1=1,n
        do 6 j2=1,j1
        ir=ir+1
6   xx(ir)=xx(ir)+x(i,j1)*x(i,j2)
        do 7 j=1,n
        ir=(j*(j+1))/2
7   d(j)=xx(ir)
        ir=0
        do 8 j1=1,n
        do 8 j2=1,j1
        ir=ir+1
8   xx(ir)=xx(ir)/dsqrt(d(j1)*d(j2))
        call eigen(xx,z,n,0)
        do 9 j=1,n
        ir=(j*(j+1))/2
9   d(j)=xx(ir)
        do 3 k=1,n
        c(k)=0.
        do 3 j=1,n
        call loc(k,j,ir,n,n,0)
3   c(k)=c(k)+(z(ir)**2)/d(j)
        do 4 k=1,n
        do 4 j=1,n
        call loc(k,j,ir,n,n,0)
4   z(ir)=z(ir)**2/(d(j)*c(k))
        do 2 i=1,n
2   c(i)=dsqrt(d(n)/d(i))
        np=n/10
        if(mod(n,10).ne.0)np=np+1
        do 300 i=1,np
        j2=i*10
        j1=j2-9
        if(j2.gt.n)j2=n
        print 100
100 format(///'no.  eigenvalue'2x'condition index'2x
        +'variance decomposition proportions'/)
        print 150,(titrex(j),j=j1,j2)
150 format(/34x,10a10)
        do 5 k=1,n
        call loc(j1,k,jk1,n,n,0)

```



```

        call loc(j2,k,jk2,n,n,0)
5      print 200,k,d(k),c(k),(z(j),j=jk1,jk2)
200    format(/i3,f12.4,f15.2,10f10.4)
300    continue
        return
        end

c
c .....
c
      double precision function vp(a,b,n)
      double precision a,b
      dimension a(*),b(*)
      vp=0.
      do 1 i=1,n
1      vp=vp+a(i)*b(i)
      return
      end

c
c .....
c
      double precision function zlam(z,vl)
c      compute the box-cox transformation z(lambda).
      implicit double precision (a-h,o-z)
      zlam=0.
      if(z.eq.0.)return
      if(dabs(vl).ge.1d-4)go to 1
      zlam=dlog(z)
      return
1      zlam=(z**vl-1)/vl
      return
      end

```

3.2 Program L-1.6 TABLEX

The program consists of three modules:

1. program *L1tablex*,
2. subroutine *tasser*,
3. subroutine *uline*.

It was also compiled with Compaq Visual Fortran 6.6.

Program Listing

```

      program L1tablex
c      January 2012: STANDARD TABLEX for Level L-1.6
c
c      UNIT=1 (formatted) READ pour le fichier des definitions des blocs et
c                      des variables independantes X.
c      UNIT=2 (formatted) READ pour les fichiers de resultats des variantes
c                      estimees par le programme Levell,
c                      ainsi que pour le fichier de donnees contenant toutes
c                      les variables Y et X, dont les variables quasi-dummies
c                      et dummies qui sont necessaires pour la correction des
c                      elasticites de Y par rapport a ces variables.

```

```

implicit double precision (a-h,o-z)
character*80 fname,ffmt
character*35 ndef,idefv(500),stitle(13)
character*10 fmt(4),ifmt(2),alpha(10),alphax(10,13)
character*10 carmrs(10,6),caresg(10,6)
character*9 varname,nvtname(10)
character*8 namv(500),namy(10),namd(5)
character*8 name,nambl,namx,namxref(10),xrefname(10),modtype(10)
character*4 nvariant(10)
character*3 nty(500,10)
character*2 ntype
character*1 icar(35),under(8)
dimension deryx(4,2),ela(4,2),coryx(2)
dimension numv(500),x(500,10,13),ngr(500,10),nbeta(500,10)
dimension rho(13,10,2),nrho(13,10),nr(13),vlik(10)
dimension r2p(10),r2pa(10),r2(10),r2bar(10),plim(10)
dimension n(10),nc(10),nf(10),nobel(10),nvi(10),npar(10)
dimension vlx(5,10,3),nlx(5,10),vly(10,3),nlyy(10)
dimension vd(5,10,13),ndel(5,10),vle(5,10,3),nlee(5,10),nrf(10)
dimension vlxf(5,10),nlxf(5,10),nlyf(10),ndf(5,10),nlef(5,10)
dimension yx(10000),deryxref(10),esgmrs(3,3,10)
dimension ymom(3,10),esg(3,10),eymom(3,10),nstat(13)
dimension nlyfix(10),nlyestdis(10),nlyestcon(10)
dimension nlxfix(10),nlxest(10)
dimension ndelfix(10),ndelest(10)
dimension nlzfix(10),nlzest(10)
dimension nroest(10)
dimension ncst(10)
dimension notlisted(10)
namelist/card/nbloc,neq,nestim,ndt,nvs,nlist,nstat
c*****
c Input parameters in namelist/card/:
c   nbloc   :Number of blocks of independent variables X in the
c             list of definitions of X (unlimited)
c   neq     :Number of equations (or variants) to be reported
c             in TABLEX (max.10)
c   nestim  :1 - All the derivatives and elasticities computed at the sample
c             means based on the whole estimation period are reported in
c             TABLEX.
c             :2 - All the derivatives and elasticities computed at the sample
c             means based on the last portion of the estimation period are
c             reported in TABLEX.
c   ndt     :Number of variables used in the heteroskedasticity
c             function for the "neq" equations (max.5)
c   nvs     :0 - Tablex in French.
c             1 - Tablex in English.
c   nlist   :0 - Don't print the list of definitions of the variables.
c             1 - Print the list of definitions of the variables.
c   nstat(i):0 - Don't print the ith statistic for Beta or Delta.
c             i - Print the ith statistic for Beta or Delta (i=1,...,13).
c             (There are 13 statistics in total)
c*****
c   data nbeta,nrho/5000*0,130*0/
c   data nlx,nlyy,ndel,nlee/50*0,10*0,50*0,50*0/
c   data nlyf,nlxf,ndf,nlef/10*0,50*0,50*0,50*0/
c   data x/65000*0./

c Lire les parametres de controle du namelist/card/
c Lire le nom de la variable X_ref utilisee comme variable de reference par
c rapport a laquelle tous les taux maginaux de substitution des autres

```

```

c  variables independantes X_k seront calcules, pour chacune des "neq"
variantes.
c Lire les noms des variables qui sont utilisees pour l'heteroscedasticite
c  dans tout l'ensemble des variantes reportees dans TABLEX, si ndt > 0.

      read card
c xrefname est le nom de X_ref cadré à gauche.
c namxref est le nom de X_ref cadré à droite.
      do 4 i=1,neq
c Initialize the numbers of fixed and estimated parameters for:
c Lambda(y)
      nlyfix(i)=0
      nlyestdis(i)=0
      nlyestcon(i)=0
c Lambda(x)
      nlxfix(i)=0
      nlxest(i)=0
c Delta(z)
      ndelfix(i)=0
      ndelest(i)=0
c Lambda(z)
      nlzfix(i)=0
      nlzest(i)=0
c Rho
      nroest(i)=0

      read 3,xrefname(i)
      namxref(i)=adjustr(xrefname(i))
4 continue

      if(ndt.gt.0)then
      do 1000 i=1,ndt
1000 read 3,namd(i)
      3 format(a8)
      endif

      nvar=0
      if(nlist.eq.1)print 1901
1901 format(///)

c Lire le fichier contenant la liste des definitions des blocs et
c des variables X sur UNIT=1

      read 29,fname
29 format(a80)
      open(unit=1,file=fname)

c  nvar est le total des variables independantes X lues dans le fichier.
      nvar=0
      do 1 i=1,nbloc
      if(nvs.eq.0)read(1,1001)num,nambl,idef
      if(nvs.eq.1)read(1,1002)num,nambl,idef
1001 format(i2,a8,a35)
1002 format(i2,a8,35x,a35)
      if(nlist.ne.0)print 1003,i,nambl,idef
1003 format(//i5,5x,a8,5x,a35)
      10 continue
      if(nvs.eq.0)read(1,1001)num,namx,idef
      if(nvs.eq.1)read(1,1002)num,namx,idef
      if(namx.eq.' ')go to 1

```

```

nvar=nvar+1
numv(nvar)=num
namv(nvar)=namx
idefv(nvar)=idef

c Imprimer la liste des definitions des blocs et des variables.
  if(nlist.ne.0)print 1004,num,idef,namv(nvar)
1004 format(/10x,i5,5x,a35,5x,a8)
  go to 10
  1 continue

  print card
  if(nlist.eq.1)stop
c modtype est le mom du modèle (8 caractères) cadré à droite
  do 1005 i=1,neq
1005 modtype(i)='    L-1.6'
c Initialiser les 13 titres des statistiques pour Beta ou Delta.
  if(nvs.eq.1)then
    stitle(1)='BETA coefficient'
    stitle(2)='Derivative of Y (sample value) '
    stitle(3)='Derivative of E(Y) '
    stitle(4)='Derivative of SIGMA(Y) '
    stitle(5)='Derivative of GAMMA(Y) '
    stitle(6)='Elasticity of Y (sample value) '
    stitle(7)='Elasticity of E(Y) '
    stitle(8)='Elasticity of SIGMA(Y) '
    stitle(9)='Elasticity of GAMMA(Y) '
    stitle(10)='Correlation (Y,X_k) original units'
    stitle(11)='Correlation (Y,X_k) Box-Cox transf.'
    stitle(12)='Marg. Rate of Subst.(d X_ref/d X_k) '
    stitle(13)='Conditional t-statistic for BETA'
  else
    stitle(1)='Coefficient BETA'
    stitle(2)='Dérivée de Y (valeur calculée) '
    stitle(3)='Dérivée de E(Y) '
    stitle(4)='Dérivée de SIGMA(Y) '
    stitle(5)='Dérivée de GAMMA(Y) '
    stitle(6)='Élasticité de Y (valeur calculée) '
    stitle(7)='Élasticité de E(Y) '
    stitle(8)='Élasticité de SIGMA(Y) '
    stitle(9)='Élasticité de GAMMA(Y) '
    stitle(10)='Corrélation (Y,X_k) unités origin.'
    stitle(11)='Corrélation (Y,X_k) transf. Box-Cox'
    stitle(12)='Taux Marg. de Subst.(d X_ref/d X_k) '
    stitle(13)='Stat. t conditionnelle pour BETA'
  endif
c*****
c Lire les resultats des variantes de Level-1.6 sur UNIT=2.
c
c BEGINNING OF LOOP 30 for the 'neq' variants.
c*****

  do 30 i=1,neq
  npar(i)=0
  ncst(i)=1

  read 29,fname
  open(unit=2,file=fname)

  read(2,1020)namy(i),varname,nvariant(i)

```

```

1020 format(a8,2x,a9,a4)
      nvtname(i)=adjustr(varname)
      call tasser(namy(i),8)
c nb: number of beta's excluding the constant
      read(2,1021)nob,n(i),nc(i),nf(i),nobel(i),nb,nro,ns1,ngf,ngv,
      +nly,ndm,nle,nd
1021 format(14i5)
      if(nly.eq.0)nlyfix(i)=1
      nvi(i)=nb+1
      nbl=nb+1
c Lire les noms des variables independantes X, leurs types, leurs groupes,
c les coefficients betas, les 2 t-students (inconditionnel et conditionnel),
c les 2 correlations entre Y et X_k (originaux et transformes),
c les 8 types de derivees, les 8 types d'elasticites, etc., pour chaque
passe.
      do 40 j=1,nbl
      npar(i)=npar(i)+1
      read(2,1400)name,ntype,ngroup,b,stu,stuc,(coryx(j1),j1=1,2),
      +((deryx(j1,j2),j2=1,2),j1=1,4),((ela(j1,j2),j2=1,2),j1=1,4)
1400 format(a8,a2,i2,d20.12,4f12.4/(4d20.12))
c Store the derivative of E(y) with respect to X_reference, to be used in
c the computation of the MRS of X_k with X_reference, for each variant.
      if(name.eq.xrefname(i))deryxref(i)=deryx(2,1)
      do 50 k=1,nvar
      if(name.eq.namv(k))go to 41
50 continue
      print 1031,name,nvariant(i)
1031 format(///5xa8" : This variable used in Variant no.",a4,
      +"does not appear in the file containing the list of definitions"/
      +"and categories of the independent variables X")
      stop
41 continue
c Store the beta-coefficients, the 4 derivatives, the 4 elasticities,
c the 2 correlations between Y and X_k (original and transformed),
c the MRS of X_k with X_reference and the conditional student-t's
c in the big array X( , , ).
      x(k,i,1)=b
      do 42 j1=2,5
42 x(k,i,j1)=deryx(j1-1,nestim)
      do 43 j1=6,9
43 x(k,i,j1)=ela(j1-5,nestim)
      x(k,i,10)=coryx(1)
      x(k,i,11)=coryx(2)
c Note: At this step, x(k,i,12) contains only the numerator of the MRS,
c which corresponds to the derivative of E(y) with respect to X_k.
      x(k,i,12)=deryx(2,1)
      x(k,i,13)=stuc
      nty(k,i)=ntype
      ngr(k,i)=ngroup
      nbeta(k,i)=1
40 continue
c Compute the Marginal Rate of Substitution between E(y), Sigma(y) and
c Gamma(y), using the derivatives of E(y), Sigma(y) and Gamma(y)
c with respect to the regression constant, which is always the last
c variable used in a regression.
      notlisted(i)=0
      do 44 j1=1,3
      do 44 j2=1,3
      if(deryx(j2+1,1).ne.0)esgmrs(j1,j2,i)=deryx(j1+1,1)/deryx(j2+1,1)
      if(esgmrs(j1,j2,i).eq.0)notlisted(i)=1

```

```

44 continue
   if(notlisted(i).eq.1)then
       do 7001 j=1,6
7001         encode(10,7000,carmrs(i,j))'      n.a.  '
7000         format(a10)
       else
           encode(10,7002,carmrs(i,1))esgmrs(1,2,i)
           encode(10,7002,carmrs(i,2))esgmrs(2,1,i)
           encode(10,7002,carmrs(i,3))esgmrs(1,3,i)
           encode(10,7002,carmrs(i,4))esgmrs(3,1,i)
           encode(10,7002,carmrs(i,5))esgmrs(2,3,i)
           encode(10,7002,carmrs(i,6))esgmrs(3,2,i)
7002         format(d10.2)
       endif
c Read the group of estimated rho's
   if(nro.eq.0)go to 60
   nroest(i)=nro
   do 61 j=1,nro
   npar(i)=npar(i)+1
c Use the conditional t-student "stuc" for rho.
   read(2,1040)l,ro,stu,stuc
1040 format(i2,f8.3,2f8.2)
   rho(l,i,1)=ro
   rho(l,i,2)=stuc
   61 nrho(l,i)=1
   60 continue
c Read the group of estimated lambda(x)'s
   if(ngv.eq.0)go to 62
   nlxest(i)=ngv
   do 63 j=1,ngv
   npar(i)=npar(i)+1
   read(2,1041)(vlx(j,i,k),k=1,3)
1041 format(f8.3,2f8.2)
   63 nlx(j,i)=1
   62 continue
c Case: distinct estimated lambda(y)
   if(nly.eq.1)then
       read(2,1041)(vly(i,k),k=1,3)
       nlyestdis(i)=1
       npar(i)=npar(i)+1
       nlyy(i)=1
   endif
c Special Case: estimated lambda(y) constrained equal
c to one estimated lambda(x)
   if(nly.eq.2)then
       read(2,1042)ngxy
1042         format(i2)
       nlyestcon(i)=1
       do 64 k=1,3
       64         vly(i,k)=vlx(ngxy,i,k)
       nlyy(i)=1
   endif
c Read the group of estimated delta(z)
   if(ndt.eq.0)go to 90
   if(ndm.ne.1)go to 75
   ndelest(i)=nd
   do 70 j=1,nd
   npar(i)=npar(i)+1
   read(2,1401)name,del,stu,stuc,(coryx(j1),j1=1,2),

```

```

      +((deryx(j1,j2),j2=1,2),j1=1,4),((ela(j1,j2),j2=1,2),j1=1,4)
1401 format(a8,4x,d20.12,4f12.4/(4d20.12))
      do 71 k=1,ndt
      if(name.eq.namd(k))go to 72
71 continue
      print 1032,name,nvariant(i)
1032 format(///5xa8" : This variable used in Variant no.",a4,/
      +"in the heteroskedasticity function does not appear in"/
      +"the second input card")
      stop
72 vd(k,i,1)=del
      vd(k,i,2)=deryx(1,nestim)
      vd(k,i,3)=deryx(2,nestim)
      vd(k,i,4)=deryx(3,nestim)
      vd(k,i,5)=deryx(4,nestim)
      vd(k,i,6)=ela(1,nestim)
      vd(k,i,7)=ela(2,nestim)
      vd(k,i,8)=ela(3,nestim)
      vd(k,i,9)=ela(4,nestim)
c To be corrected
      vd(k,i,10)=coryx(1)
      vd(k,i,11)=coryx(2)
      vd(k,i,12)=deryx(2,1)
      vd(k,i,13)=stuc
      ndel(k,i)=1
70 continue
75 continue
c Read the group of estimated lambda(z)'s
      if(nle.ne.1)go to 90
      nlzest(i)=nd
      do 80 j=1,nd
      npar(i)=npar(i)+1
      read(2,1401)name,vler,stu,stul
      do 81 k=1,ndt
      if(name.eq.namd(k))go to 82
81 continue
      print 1032,name,nvariant(i)
      stop
82 vle(k,i,1)=vler
      vle(k,i,2)=stu
      vle(k,i,3)=stul
      nlee(k,i)=1
80 continue
90 continue
      if(ngf.eq.0)go to 91
c Read the group of fixed lambda(x)'s
      read(2,92)(vlxf(j,i),j=1,ngf)
92 format(10f8.3)
      nlxfix(i)=ngf
      do 93 j=1,ngf
93 nlxf(j,i)=1
91 if(nly.ne.0)go to 94
      read(2,92)vly(i,1)
      nlyf(i)=1
94 if(ndt.eq.0)go to 95
      if(ndm.ne.0)go to 96
c Read the group of fixed delta(z)'s
      ndelfix(i)=nd
      do 97 j=1,nd
      read(2,1401)name,del

```

```

        do 98 k=1,ndt
        if(name.eq.namd(k))go to 99
98 continue
        print 1032,name
        stop
99 vd(k,i,1)=del
        ndf(k,i)=1
97 continue
96 if(nle.ne.0)go to 95
c   Read the group of fixed lambda(z)'s
        nlzfix(i)=nd
        do 101 j=1,nd
        read(2,1401)name,vler
        do 102 k=1,ndt
        if(name.eq.namd(k))go to 103
102 continue
        print 1032,name
        stop
103 vle(k,i,1)=vler
        nlef(k,i)=1
101 continue
95 continue
c Read the values: log-likelihood function, 2 Pearson R2's, 2 Pseudo-L-R2's,
c                   probability of Y to be at the (lower or upper) limit,
c                   three moments of Y observed (ymom),
c                   three moments of Y estimated at the sample means (esg)
c                   and three moments of E(Y) estimated (eymom),
        read(2,1580)vlik(i),r2p(i),r2pa(i),r2(i),r2bar(i),plim(i),
+ (ymom(j,i),j=1,3), (esg(j,i),j=1,3), (eymom(j,i),j=1,3)
1580 format(6f10.3/(3d20.12))
c Compute the Elasticity of Substitution between the three moments of Y
c estimated at the sample means (esg).
        if(notlisted(i).eq.1)then
            do 7003 j=1,6
7003         encode(10,7000,caresg(i,j))'      n.a.      '
            else
                do 100 j1=1,3
                do 100 j2=1,3
100         esgmrs(j1,j2,i)=esgmrs(j1,j2,i)*esg(j2,i)/esg(j1,i)
                encode(10,7002,caresg(i,1))esgmrs(1,2,i)
                encode(10,7002,caresg(i,2))esgmrs(2,1,i)
                encode(10,7002,caresg(i,3))esgmrs(1,3,i)
                encode(10,7002,caresg(i,4))esgmrs(3,1,i)
                encode(10,7002,caresg(i,5))esgmrs(2,3,i)
                encode(10,7002,caresg(i,6))esgmrs(3,2,i)
            endif
        close(2)
30 continue
c
c** END OF LOOP 30 *****
c
        print 1901
c
c Lire sur UNIT=2 les observations sur les quasi-dummies et vraies dummies
c dans le fichier de donnees qui contient toutes les variables Y et X
c pour recalculer les elasticites de Y, E(Y), SIGMA(Y) et GAMMA(Y) par
c rapport a ces dummies, pour la portion des observations positives
c de celles-ci.

```



```

      read 29,fname
      read 29,ffmt

      open(unit=2,file=fname)
      do 401 k=1,nvar
      if(numv(k).le.1)go to 401
      rewind 2
2000 read(2,ffmt,end=401)namx,(yx(j),j=1,nobs)
      if(namx.ne.namv(k))go to 2000
c   Calcul du nombre des observations non-nulles de la dummy
c   pour toute la periode d'estimation
      if(nestim.eq.1)then
        do 403 i=1,neq
          nec=nc(i)
          nef=nf(i)
          ncf=nef-nec+1
          nonnul=0
          do 402 j=nec,nef
            if(yx(j).ne.0.)nonnul=nonnul+1
402      continue
          if(nonnul.eq.0)go to 403
c   Correction de l'elasticite pour la dummy si nonnul est positif seulement
          do 406 j=6,9
406      x(k,i,j)=(x(k,i,j)*ncf)/nonnul
403      continue
        else
c   Calcul du nombre des observations non-nulles de la dummy
c   pour la derniere portion de la periode d'estimation
          do 405 i=1,neq
            nec=nf(i)-nobel(i)+1
            nef=nf(i)
            ncf=nobel(i)
            nonnul=0
            do 404 j=nec,nef
              if(yx(j).ne.0.)nonnul=nonnul+1
404      continue
            if(nonnul.eq.0)go to 405
c   Correction de l'elasticite pour la dummy si nonnul est positif seulement
          do 407 j=6,9
407      x(k,i,j)=(x(k,i,j)*ncf)/nonnul
405      continue
          endif
401 continue

      close(2)
c*****
c PART I of TABLEX: Regression Coefficients, Partial Derivatives and
c Elasticities of Y, E(y), Sigma(y) and Gamma(y) w.r.t. X_k,
c MRS (Marginal Rate of Substitution) of X_k with X_reference
c and t-statistic. There are 13 statistics.
c*****
      ns=47+neq*10
      encode(20,1910,ifmt)ns
1910 format(' (1x,' ,i3," ('=') ")
      print ifmt

      if(nvs.eq.0)then
        print 1911,(modtype(i),i=1,neq)
1911      format(1x,'PARTIE I. Statistiques présentées'/
+          3x,'Type de modèle',t49,10(2x,a8))

```

```

        print 1912, (nvtname(i), i=1, neq)
1912      format(3x, 'Nom de la variante', t49, 10(1x, a9))
        print 1913, (nvariant(i), i=1, neq)
1913      format(3x, 'Numéro de version de la variante', t47, 10(6x, a4))
        print 1914, (namy(i), i=1, neq)
1914      format(3x, 'Variable dépendante dans la variante', t49, 10(2x, a8))
        if(nstat(12).ne.0) print 1915, (namxref(i), i=1, neq)
1915      format(3x, 'Variable de référence X_ref pour T.M.S.', t49,
+        10(2x, a8))
        else
            print 1921, (modtype(i), i=1, neq)
1921      format(1x, 'PART I. Presented statistics'/
+        3x, 'Model type', t49, 10(2x, a8))
            print 1922, (nvtname(i), i=1, neq)
1922      format(3x, 'Name of the variant', t49, 10(1x, a9))
            print 1923, (nvariant(i), i=1, neq)
1923      format(3x, 'Version number of the variant', t47, 10(6x, a4))
            print 1924, (namy(i), i=1, neq)
1924      format(3x, 'Dependent variable in the variant', t49, 10(2x, a8))
            if(nstat(12).ne.0) print 1925, (namxref(i), i=1, neq)
1925      format(3x, 'Reference variable X_ref for M.R.S.', t49, 10(2x, a8))

        end if
        print*, " "
        print ifmt

```

C
C DEBUT DE LA BOUCLE 201 (pour les coefficients Beta)

```

C
    jj=0
    rewind 1
    do 201 i=1, nbloc
        if(nvs.eq.0) read(1, 1001) num, nambl, ideo
        if(nvs.eq.1) read(1, 1002) num, nambl, ideo
        decode(35, 202, ideo) icar
202      format(35a1)
        do 203 j=1, 35
            nk=35-j+1
            if(icar(nk).ne.' ') go to 204
203      continue
204      continue
            j1=0
200      continue
            if(nvs.eq.0) read(1, 1001) num, namx, ideo
            if(nvs.eq.1) read(1, 1002) num, namx, ideo
            if(namx.eq.' ') go to 201
            jj=jj+1
            ns=0
            do 210 k=1, neq
210          ns=ns+nbeta(jj, k)
                if(ns.eq.0) go to 200
                j1=j1+1
                if(j1.ne.1) go to 205
                nk8=nk+8
                print 111
111          format(' ')
                encode(40, 207, fmt) nk8
207          format(' (1x, 'i2, ' (" -") ) ')
                print fmt
                encode(20, 2021, alpha) nk

```

```

2021 format('1x,a8','i2','a1')
      print alpha,nambl,(icar(kk),kk=1,nk)
      print fmt
205 continue
c Convertir les valeurs numeriques des coefficients Beta, des derivees,
c des elasticites, des correlations et le taux marginal de substitution
c en caracteres.
      do 220 k=1,neq
      do 230 j=1,13
230 alphax(k,j)=' '
      if(nbeta(jj,k).eq.0)go to 220
c Coefficient Beta et 4 Derivees
      do 211 j=1,5
211 encode(10,219,alphax(k,j))x(jj,k,j)
219 format(d10.2)
c 4 Elasticites et 2 correlations
      do 212 j=6,11
      if(j.eq.9)then
c For Elasticity of Gamma, use exponential format because of big values.
          encode(10,219,alphax(k,j))x(jj,k,j)
      else
          encode(10,221,alphax(k,j))x(jj,k,j)
221      format(f10.3)
      endif
212 continue
c Taux marginal de substitution
      encode(10,219,alphax(k,j))x(jj,k,12)/deryxref(k)
c Convertir la valeur numerique de la statistique t en caracteres.
      encode(10,231,alphax(k,13))x(jj,k,13)
231 format(' ('f6.2')')
220 continue
c Imprimer la definition et le nom de la variable explicative.
      print 2020,idef,namv(jj)
2020 format(3x,a35,2x,a8)

c Souligner les Quasi-dummies (numv=2) et les dummies (numv=3)
      do 410 k=1,8
410 under(k)=' '
      if(numv(jj).gt.1)call uuline(numv(jj),namv(jj),under)
      if(numv(jj).eq.2)print 226,under
      if(numv(jj).eq.3)print 227,under
226 format(3x,'(Quasi-dummy)',t41,8a1)
227 format(3x,'(Dummy)',t41,8a1)

c Imprimer le coefficient Beta, les 4 derivees, les 4 elasticites,
c les 2 correlations,le taux marginal de substitution et
c la statistique t conditionnelle selon les options choisies
c dans nstat(i), i=1,13.
      if(jj.ne.nvar)then
c For all the variables except the regression constant.
          do 232 j=1,13
          if(nstat(j).gt.0)print 222,stitle(j),(alphax(k,j),k=1,neq)
222      format(5x,a35,8x,10a10)
232      continue
          else
c For the regression constant, print only the coefficient and t-statistic.
          if(nstat(1).gt.0)print 222,stitle(1),(alphax(k,1),k=1,neq)
          if(nstat(13).gt.0)print 222,stitle(13),(alphax(k,13),k=1,neq)
      endif

```

```

c Imprimer le type et le groupe de Lambda associes a chaque variable.
  do 240 k=1,neq
    alpha(k)=' '
    if(nty(jj,k).ne.'NL')then
      if(nbeta(jj,k).ne.0)encode(9,241,alpha(k))nty(jj,k),ngr(jj,k)
241      format(' ',a2,i1)
    endif
240 continue
    print 1221,(alpha(k),k=1,neq)
1221 format(47x,10a10)
    go to 200
201 continue
    close(1)
c
c FIN DE LA BOUCLE 201
c
c Heteroskedasticity: Delta coefficient
  nsd=0
  nsdf=0
  do 359 i=1,ndt
    do 359 j=1,neq
      nsd=nsd+ndel(i,j)
      nsdf=nsdf+ndf(i,j)
359 continue
    if(nsd.ne.0)then
      if(nvs.eq.0)then
        print 357
357      format(/1x,"HÉTÉROSCÉDASTICITÉ"/1x,18(1h-))
        stitle(1)='Coefficient DELTA'
        stitle(10)='Corrélation (Y,Z_m) unités origin.'
        stitle(11)='Corrélation (Y,Z_m) transf. Box-Cox'
        stitle(12)='Taux Marg. de Subst.(d X_ref/d Z_m)'
        stitle(13)='Stat. t conditionnelle pour DELTA'
      else
        print 358
358      format(/1x,"HETEROSKEDASTICITY"/1x,18(1h-))
        stitle(1)='DELTA coefficient'
        stitle(10)='Correlation (Y,Z_m) original units'
        stitle(11)='Correlation (Y,Z_m) Box-Cox transf.'
        stitle(12)='Marg. Rate of Subst.(d X_ref/d Z_m)'
        stitle(13)='Conditional t-statistic for DELTA'
      end if
      do 362 i=1,ndt
        do 356 j=1,nvar
          if(namd(i).eq.namv(j))idef=idefv(j)
356      continue
          print 2020,idef,namd(i)
          do 365 j=1,13
            do 364 k=1,neq
              alpha(k)=' '
              if(ndel(i,k).ne.0)then
                if(j.le.5.or.j.eq.9.or.j.eq.12)
+                  encode(10,219,alpha(k))vd(i,k,j)
+                  if(j.eq.6.or.j.eq.7.or.j.eq.8.or.j.eq.10.or.j.eq.11)
+                  encode(10,221,alpha(k))vd(i,k,j)
                if(j.eq.13)encode(10,231,alpha(k))vd(i,k,j)
              endif
364      continue
              if(nstat(j).gt.0)print 222,stitle(j),(alpha(k),k=1,neq)
365      continue

```

```

        do 366 k=1,neq
        alpha(k)=' '
        if(nlee(i,k).eq.1)encode(10,367,alpha(k))i
367      format(4x,'LAM',i2)
366      continue
        print 1222,(alpha(k),k=1,neq)
362      continue
    endif
    if(nsdf.ne.0)then
        do 255 i=1,ndt
        do 254 j=1,nvar
        if(namd(i).eq.namv(j))idef=idefv(j)
254      continue
        do 256 k=1,neq
        alpha(k)=' '
        if(ndf(i,k).ne.0)encode(10,221,alpha(k))vd(i,k,1)
256      continue
        print 2020,idef,namd(i),(alpha(k),k=1,neq)
255      continue
    endif

C*****
C PART II of TABLEX: Parameters (Box-Cox, Heteroskedasticity,
C      Serial Autocorrelation)
C*****
    print*,' '
    print ifmt
    if(nvs.eq.0)then
        print 1908,(modtype(i),i=1,neq)
1908      format(1x,'PARTIE II. Paramètres'/
+        12x,'Stat. t non conditionnelle (=0) [=1]')/
+        3x,'Type de modèle',t49,10(2x,a8))
        print 1912,(nvtname(i),i=1,neq)
        print 1913,(nvariant(i),i=1,neq)
        print 1914,(namy(i),i=1,neq)
    else
        print 1909,(modtype(i),i=1,neq)
1909      format(1x,'PART II. Parameters'/
+        10x,'t-statistic unconditional (=0) [=1]')/
+        3x,'Model type',t49,10(2x,a8))
        print 1922,(nvtname(i),i=1,neq)
        print 1923,(nvariant(i),i=1,neq)
        print 1924,(namy(i),i=1,neq)
    endif
    print*," "
    print ifmt

C
C Box-Cox
C
    nsyf=0
    nsy=0
    do 350 j=1,neq
    nsyf=nsyf+nlyf(j)
350  nsy=nsy+nlyy(j)
    nsxf=0
    nsx=0
    do 340 i=1,5
    nrf(i)=0
    nr(i)=0

```

```

do 340 j=1,neq
nrf(i)=nrf(i)+nlxf(i,j)
nr(i)=nr(i)+nlx(i,j)
nsxf=nsxf+nlxf(i,j)
340 nsx=nsx+nlx(i,j)
ns=nsy+nsx+nsyf+nsxf
if(ns.eq.0)go to 299
if(nvs.eq.0.and.nsy+nsx.ne.0)print 3008
if(nvs.eq.1.and.nsy+nsx.ne.0)print 3001
3008 format(/1x'Transformations de Box-Cox (estimées)'/1x37('-'))
3001 format(/1x'Box-Cox transformations (estimated)'/1x35('-'))
if(nsy.ne.0)then
3003 format(/3x'Lambda(y)'28x'ELY',t49,10a10)
do 353 k=1,neq
alpha(k)=' '
if(nlyy(k).ne.0)encode(10,221,alpha(k))vly(k,1)
353 continue
print 3003,(alpha(k),k=1,neq)
do 355 j=2,3
do 354 k=1,neq
alpha(k)=' '
if(nlyy(k).ne.0)then
if(j.eq.2)encode(10,231,alpha(k))vly(k,j)
if(j.eq.3)encode(10,233,alpha(k))vly(k,j)
233 format(' ['f6.2']')
endif
354 continue
355 print 1222,(alpha(k),k=1,neq)
1222 format(48x,10a10)
endif
if(nsx.eq.0)go to 341
do 342 i=1,5
if(nr(i).eq.0)go to 341
3011 format(/3x'Lambda(x) - groupe 'i1,17x'EL',i1,t49,10a10)
3002 format(/3x'Lambda(x) - group 'i1,18x'EL',i1,t49,10a10)
do 343 k=1,neq
alpha(k)=' '
if(nlx(i,k).ne.0)encode(10,221,alpha(k))vlx(i,k,1)
343 continue
if(nvs.eq.0)print 3011,i,i,(alpha(k),k=1,neq)
if(nvs.eq.1)print 3002,i,i,(alpha(k),k=1,neq)
do 345 j=2,3
do 344 k=1,neq
alpha(k)=' '
if(nlx(i,k).ne.0)then
if(j.eq.2)encode(10,231,alpha(k))vlx(i,k,j)
if(j.eq.3)encode(10,233,alpha(k))vlx(i,k,j)
endif
344 continue
345 print 1222,(alpha(k),k=1,neq)
342 continue
341 continue
if(nvs.eq.0.and.nsyf+nsxf.ne.0)print 3015
if(nvs.eq.1.and.nsyf+nsxf.ne.0)print 3016
3015 format(/1x'Transformations de Box-Cox (fixées)'/1x35('-')/)
3016 format(/1x'Box-Cox transformations (fixed)'/1x31('-')/)
if(nsyf.ne.0)then
246 format(3x'Lambda(y)'28x'FLY',t49,10a10)
do 247 k=1,neq
alpha(k)=' '

```

```

        if(nlyf(k).ne.0)encode(10,221,alpha(k))vly(k,1)
247 continue
    print 246,(alpha(k),k=1,neq)
    print 112
112 format(/)
    endif
    if(nsxf.eq.0)go to 299
249 format(3x'Lambda(x) - groupe 'i1,17x,'FL'i1,t49,10a10)
250 format(3x'Lambda(x) - group 'i1,18x,'FL'i1,t49,10a10)
    do 251 i=1,5
        if(nrf(i).eq.0)go to 299
        do 252 k=1,neq
            alpha(k)=' '
            if(nlxf(i,k).ne.0)encode(10,221,alpha(k))vlxf(i,k)
252 continue
            if(nvs.eq.0)print 249,i,i,(alpha(k),k=1,neq)
            if(nvs.eq.1)print 250,i,i,(alpha(k),k=1,neq)
            print 112
251 continue
299 continue
c
c   Heteroskedasticity: lambda(z)
c
    if(ndt.ne.0)then
        nsle=0
        nslef=0
        do 360 i=1,ndt
            do 360 j=1,neq
                nsle=nsle+nlee(i,j)
360         nslef=nslef+nlef(i,j)
                if(nvs.eq.0.and.nsle.ne.0)print 3007
                if(nvs.eq.1.and.nsle.ne.0)print 3004
3007         format(/1x'Hétéroscédasticité (estimée)'/1x28('-'))
3004         format(/1x'Heteroskedasticity (estimated)'/1x30('-'))
                if(nsle.ne.0)then
                    do 372 i=1,ndt
                        do 373 k=1,neq
                            alpha(k)=' '
                            if(nlee(i,k).ne.0)encode(10,221,alpha(k))vle(i,k,1)
373                         continue
                            print 3006,namd(i),i,(alpha(k),k=1,neq)
3006         format(/3x'Lambda(z) for 'a8,15x,'LAM'i2,3x,t49,10a10)
                            do 375 j=2,3
                                do 374 k=1,neq
                                    alpha(k)=' '
                                    if(nlee(i,k).ne.0)then
                                        if(j.eq.2)encode(10,231,alpha(k))vle(i,k,j)
                                        if(j.eq.3)encode(10,233,alpha(k))vle(i,k,j)
                                    endif
374                                 continue
                                    print 1222,(alpha(k),k=1,neq)
375                                 print 1222,(alpha(k),k=1,neq)
372                                 continue
                                endif
                            if(nvs.eq.0.and.nslef.ne.0)print 3017
                            if(nvs.eq.1.and.nslef.ne.0)print 3018
3017         format(/1x'Hétéroscédasticité (fixée)'/1x26('-'))/
3018         format(/1x'Heteroskedasticity (fixed)'/1x26('-'))/
                            if(nslef.ne.0)then
                                do 261 i=1,ndt
                                    do 262 k=1,neq

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                alpha(k)=' '
                if(nlef(i,k).ne.0)encode(10,221,alpha(k))vle(i,k,1)
262                continue
                print 264,namd(i),i,(alpha(k),k=1,neq)
264                format(/3x'(Variable = 'a8')',16x'LAM'i2,3x,t49,10a10)
                print 112
261                continue
            endif
        endif
c  Serial Autocorrelation
        ns=0
        do 300 i=1,13
            nr(i)=0
            do 300 j=1,neq
                nr(i)=nr(i)+nrho(i,j)
300            ns=ns+nrho(i,j)
            if(ns.ne.0)then
                if(nvs.eq.0)then
                    print 3000
3000                    format(/1x'Autocorrélation'/1x15('-'))
                else
                    print 3005
3005                    format(/1x'Autocorrelation'/1x15('-'))
                end if
                do 310 i=1,13
                    if(nr(i).eq.0)go to 310
                    do 320 k=1,neq
                        alpha(k)=' '
                        if(nrho(i,k).ne.0)encode(10,221,alpha(k))rho(i,k,1)
320                        continue
                        if(nvs.eq.0)print 3009,i,i,(alpha(k),k=1,neq)
3009                        format(/3x'Ordre'i3,29x,'RHO',i3,t49,10a10)
                        if(nvs.eq.1)print 3010,i,i,(alpha(k),k=1,neq)
3010                        format(/3x'Order'i3,29x,'RHO',i3,t49,10a10)
                        do 330 k=1,neq
                            alpha(k)=' '
                            if(nrho(i,k).ne.0)encode(10,231,alpha(k))rho(i,k,2)
330                            continue
                            print 1222,(alpha(k),k=1,neq)
310                        continue
                    end if
                end if
c *****
c Part III of TABLEX: General Statistics
c *****
                print*, ' '
                print ifmt
                if(nvs.eq.0)then
                    print 5000,(modtype(i),i=1,neq)
5000                    format(1x,'PARTIE III. Statistiques générales'/
+                    3x,'Type de modèle',t49,10(2x,a8))
                    print 1912,(nvtname(i),i=1,neq)
                    print 1913,(nvariant(i),i=1,neq)
                    print 1914,(namy(i),i=1,neq)
                else
                    print 5001,(modtype(i),i=1,neq)
5001                    format(1x,'PART III. General statistics'/
+                    3x,'Model type',t49,10(2x,a8))
                    print 1922,(nvtname(i),i=1,neq)
                    print 1923,(nvariant(i),i=1,neq)
                    print 1924,(namy(i),i=1,neq)

```



```

endif
print*, " "
print ifmt
if(nvs.eq.0)then
print 6000, (vlik(i),i=1,neq)
6000 format(/1x'Log de vraisemblance't49,10f10.2)
print 6100, (npar(i)-1,i=1,neq)
6100 format(/1x'Degrés de liberté't49,10i10)
print 6009, (r2p(i),i=1,neq)
6009 format(/1x'Pearson R2',t49,10f10.3)
print 6018, (r2pa(i),i=1,neq)
6018 format(1x'Pearson R2 ajusté pour Degrés de liberté',t49,10f10.3)

print 6010, (r2(i),i=1,neq)
6010 format(/1x'Pseudo-(L)-R2't49,10f10.3)
print 6020, (r2bar(i),i=1,neq)
6020 format(1x'Pseudo-(L)-R2 ajusté pour Degrés de liberté't49,10f10.3)
print 6050, (plim(i),i=1,neq)
6050 format(/1x'Probabilité moyenne (Y=observation limite)'t49,10f10.3)

print 6044, (nobs,i=1,neq)
6044 format(/1x"Echantillon - Nombre d'observations"t49,10i10)
print 6244, (n(i),i=1,neq)
6244 format(/1x"Estimation - Nombre d'observations"t49,10i10)
print 6046, (nc(i),i=1,neq)
6046 format(13x'- Première observation't49,10i10)
print 6048, (nf(i),i=1,neq)
6048 format(13x'- Dernière observation't49,10i10)
if(nestim.eq.2)print 6148, (nobel(i),i=1,neq)
6148 format(/1x'Sous-échantillon pour dérivées et élasticités't49,
+10i10)

print 6040
6040 format(/1x'Nombre total de paramètres fixés ou estimés:')
print 6141, (nvi(i)-1,i=1,neq)
6141 format(13x,'- Beta .Estimé',t49,10i10)
print 61411, (ncst(i),i=1,neq)
61411 format(20x,'.Constante',t49,10i10)

print 6142, (nlyfix(i),i=1,neq)
6142 format(13x,'- Lambda(y) '/20x,'.Fixé',t49,10i10)
print 61421, (nlyestcon(i),i=1,neq)
61421 format(20x,'.Estimé .Contraint',t49,10i10)
print 61422, (nlyestdis(i),i=1,neq)
61422 format(28x,'.Distinct',t49,10i10)

print 61430, (nlxfix(i),i=1,neq)
61430 format(13x'- Lambda(x) '/20x,'.Fixé',t49,10i10)
print 61431, (nlxest(i),i=1,neq)
61431 format(20x,'.Estimé',t49,10i10)

print 6143, (ndelfix(i),i=1,neq)
6143 format(13x'- Hétéroscédasticité'/16x,'Delta'/20x,'.Fixé',t49,
+10i10)
print 61432, (ndeleast(i),i=1,neq)
61432 format(20x,'.Estimé',t49,10i10)

print 6144, (nlzfix(i),i=1,neq)
6144 format(16x'Lambda(z) '/20x,'.Fixé',t49,10i10)

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        print 61441, (nlzest(i), i=1, neq)
61441 format(20x, '.Estimé', t49, 10i10)

        print 6145, (nroest(i), i=1, neq)
6145 format(13x'- Autocorrélation'/16x, 'Rho .Estimé', t49, 10i10)

        print 6146, (nlyfix(i)+nlxfix(i)+ndelfix(i)+nlzfix(i), i=1, neq)
6146 format(13x'- Total'/20x, '.Fixé', t49, 10i10)
        print 6147, (npar(i), i=1, neq)
6147 format(20x, '.Estimé', t49, 10i10)

        print 6051, (ymom(1, i), i=1, neq)
6051 format(/1x'Moyenne de Y observé't49, 10d10.2)
        print 6052, (ymom(2, i), i=1, neq)
6052 format(1x'Ecart-type de Y observé't49, 10d10.2)
        print 6053, (ymom(3, i), i=1, neq)
6053 format(1x"Coeff. d'asymétrie de Y observé"t49, 10d10.2)

        print 6054, (esg(1, i), i=1, neq)
6054 format(/1x'Moyenne de Y, estimée à la moyenne't49, 10d10.2)
        print 6055, (esg(2, i), i=1, neq)
6055 format(1x'Ecart-type de Y, estimé à la moyenne't49, 10d10.2)
        print 6056, (esg(3, i), i=1, neq)
6056 format(1x"Coeff. d'asymétrie de Y, estimé à la moyenne"t49,
+10d10.2)

        print 6057, (eymom(1, i), i=1, neq)
6057 format(/1x'Moyenne de E(Y) estimé't49, 10d10.2)
        print 6058, (eymom(2, i), i=1, neq)
6058 format(1x'Ecart-type de E(Y) estimé't49, 10d10.2)
        print 6059, (eymom(3, i), i=1, neq)
6059 format(1x"Coeff. d'asymétrie de E(Y) estimé"t49, 10d10.2)

        print 6060
6060 format(/1x'T.M.S. entre Mesures M1, M2 and M3')
        print 6061, (carmrs(i, 1), i=1, neq)
6061 format(14x'M1 / M2't49, 10a10)
        print 6062, (carmrs(i, 2), i=1, neq)
6062 format(14x'M2 / M1't49, 10a10)
        print 6063, (carmrs(i, 3), i=1, neq)
6063 format(14x'M1 / M3't49, 10a10)
        print 6064, (carmrs(i, 4), i=1, neq)
6064 format(14x'M3 / M1't49, 10a10)
        print 6065, (carmrs(i, 5), i=1, neq)
6065 format(14x'M2 / M3't49, 10a10)
        print 6066, (carmrs(i, 6), i=1, neq)
6066 format(14x'M3 / M2't49, 10a10)

c Compute the elasticity of substitution between E(y), Sigma(y) and Gamma(y)
    print 6070
6070 format(/1x'Elasticité de substitution entre M1, M2 et M3')
        print 6061, (caresg(i, 1), i=1, neq)
        print 6062, (caresg(i, 2), i=1, neq)
        print 6063, (caresg(i, 3), i=1, neq)
        print 6064, (caresg(i, 4), i=1, neq)
        print 6065, (caresg(i, 5), i=1, neq)
        print 6066, (caresg(i, 6), i=1, neq)

    else

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```

        print 6001, (vlik(i), i=1, neq)
6001 format(/1x'Log-likelihood't49,10f10.2)
        print 6101, (npar(i)-1, i=1, neq)
6101 format(/1x'Degrees of freedom't49,10i10)
        print 6009, (r2p(i), i=1, neq)
        print 6019, (r2pa(i), i=1, neq)
6019 format(1x'Pearson R2 adjusted for Degrees of freedom',t49,10f10.3)
        print 6010, (r2(i), i=1, neq)
        print 6021, (r2bar(i), i=1, neq)
6021 format(1x'Pseudo-(L)-R2 adjusted for Degrees of freedom't49,
+10f10.3)
        print 6121, (plim(i), i=1, neq)
6121 format(/1x'Average probability (Y=limit observation)'t49,10f10.3)

        print 6045, (nobs, i=1, neq)
6045 format(/1x'Sample      - Number of observations't49,10i10)
        print 6245, (n(i), i=1, neq)
6245 format(/1x'Estimation - Number of observations't49,10i10)
        print 6047, (nc(i), i=1, neq)
6047 format(12x' - First observation't49,10i10)
        print 6049, (nf(i), i=1, neq)
6049 format(12x' - Last observation't49,10i10)
        if(nestim.eq.2)print 6149, (nobel(i), i=1, neq)
6149 format(/1x'Subsample for derivatives and elasticities't49,10i10)

        print 6340
6340 format(/1x'Total number of fixed or estimated parameters:')
        print 6341, (nvi(i)-1, i=1, neq)
6341 format(12x' - Beta .Estimated't49,10i10)
        print 63411, (ncst(i), i=1, neq)
63411 format(19x, '.Constant',t49,10i10)

        print 6342, (nlyfix(i), i=1, neq)
6342 format(12x, ' - Lambda(y) '/19x, '.Fixed',t49,10i10)
        print 63421, (nlyestcon(i), i=1, neq)
63421 format(19x, '.Estimated .Constrained',t49,10i10)
        print 63422, (nlyestdis(i), i=1, neq)
63422 format(30x, '.Distinct',t49,10i10)

        print 63430, (nlxfix(i), i=1, neq)
63430 format(12x' - Lambda(x) '/19x, '.Fixed',t49,10i10)
        print 63431, (nlxest(i), i=1, neq)
63431 format(19x, '.Estimated',t49,10i10)

        print 6343, (ndelfix(i), i=1, neq)
6343 format(12x' - Heteroskedasticity'/15x, 'Delta'/19x, '.Fixed',t49,
+10i10)
        print 63432, (ndelest(i), i=1, neq)
63432 format(19x, '.Estimated',t49,10i10)

        print 6344, (nlzfix(i), i=1, neq)
6344 format(15x'Lambda(z) '/19x, '.Fixed',t49,10i10)
        print 63441, (nlzest(i), i=1, neq)
63441 format(19x, '.Estimated',t49,10i10)

        print 6345, (nroest(i), i=1, neq)
6345 format(12x' - Autocorrelation'/15x, 'Rho .Estimated't49,10i10)

        print 6346, (nlyfix(i)+nlxfix(i)+ndelfix(i)+nlzfix(i), i=1, neq)
6346 format(12x' - Total'/19x, '.Fixed',t49,10i10)

```

```

        print 6347, (npar(i), i=1, neq)
6347 format(19x, '.Estimated', t49, 10i10)

        print 6081, (ymom(1, i), i=1, neq)
6081 format(/1x'Mean of observed Y't49, 10d10.2)
        print 6082, (ymom(2, i), i=1, neq)
6082 format(1x'Standard error of observed Y't49, 10d10.2)
        print 6083, (ymom(3, i), i=1, neq)
6083 format(1x'Skewness of observed Y't49, 10d10.2)

        print 6084, (esg(1, i), i=1, neq)
6084 format(/1x'Mean of Y, estimated at the mean't49, 10d10.2)
        print 6085, (esg(2, i), i=1, neq)
6085 format(1x'Standard error of Y, estimated at the mean't49, 10d10.2)
        print 6086, (esg(3, i), i=1, neq)
6086 format(1x'Skewness of Y, estimated at the mean't49, 10d10.2)

        print 6087, (eymom(1, i), i=1, neq)
6087 format(/1x'Mean of estimated E(Y)'t49, 10d10.2)
        print 6088, (eymom(2, i), i=1, neq)
6088 format(1x'Standard error of estimated E(Y)'t49, 10d10.2)
        print 6089, (eymom(3, i), i=1, neq)
6089 format(1x'Skewness of estimated E(Y)'t49, 10d10.2)

        print 6090
6090 format(/1x'M.R.S. between Measures M1, M2 and M3')
        print 6061, (carmrs(i, 1), i=1, neq)
        print 6062, (carmrs(i, 2), i=1, neq)
        print 6063, (carmrs(i, 3), i=1, neq)
        print 6064, (carmrs(i, 4), i=1, neq)
        print 6065, (carmrs(i, 5), i=1, neq)
        print 6066, (carmrs(i, 6), i=1, neq)

c Compute the elasticity of substitution between E(y), Sigma(y) and Gamma(y)
        print 6091
6091 format(/1x'Elasticity of substitution between M1, M2 and M3')
        print 6061, (caresg(i, 1), i=1, neq)
        print 6062, (caresg(i, 2), i=1, neq)
        print 6063, (caresg(i, 3), i=1, neq)
        print 6064, (caresg(i, 4), i=1, neq)
        print 6065, (caresg(i, 5), i=1, neq)
        print 6066, (caresg(i, 6), i=1, neq)

        endif
        print ifmt

        stop
        end
        subroutine tasser(namy, n)
        character*8 namy
        character*1 icar(8)
        decode(n, 1022, namy) (icar(k), k=1, n)
1022 format(8a1)
        do 42 k=1, n
            nk=n-k+1
            if (icar(nk).ne.' ') go to 43
        42 continue
        43 if (k.eq.n) go to 44
            do 45 k=1, nk
                k2=n-k+1

```

```

      k1=nk-k+1
45  icar(k2)=icar(k1)
      k2=n-nk
      do 46 k=1,k2
46  icar(k)=' '
      encode(n,1022,namy)(icar(k),k=1,n)
44  continue
      return
      end
      subroutine uline(num,nam,under)
      character*8 nam
      character*1 icar(8),under(8)
      decode(8,1,nam) icar
1   format(8a1)
      do 2 j=1,8
      nk=8-j+1
      if(icar(nk).ne.' ')go to 3
2   continue
3   continue
      if(num.eq.2)then
          do 5 j=1,nk
5       under(j)='- '
      else
          do 6 j=1,nk
6       under(j)='='
      endif
      return
      end

```

4. REFERENCES

All the publications listed below can be found in *d:\Level1new\Documentation* except Gaudry (1973), Gaudry *et al.* (1993) and Tran *et al.* (2008) which are downloadable from the website of Agora Jules Dupuit <http://www.e-ajd.net>.

DEMTEC data base: derivation and definitions of variables

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Gaudry, M. (1980). *A Study of Aggregate Bi-Modal Urban Travel Supply, Demand and Network Behavior using Simultaneous Equations with Autoregressive Residuals*, Transportation Research, B., Vol. 14B, No. 2, pp. 29-58, Pergamon Press. (see Appendix pp. 56-58).

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Gaudry, M., Baldino, D. and T. C. Liem (1984). *FRQ, un Fichier Routier Québécois*, Centre de recherche sur les transports, Publication # 360, Département de sciences économiques, Cahier # 8433, Université de Montréal.

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