

READY RECKONER FOR EXECUTING SAS MACROS FOR ECONOMETRIC ANALYSIS

1. Diversity Indices

```
/* Preparation of dataset */  
  
Data econlib.ex1;  
Input paddy wheat barley gram peas;  
Cards;  
5 7 8 5 2  
2 5 6 7 9  
9 9 9 9 9  
8 6 5 4 1  
8 6 5 4 1  
Run;  
  
/* Invoking the macro */  
  
options mstored sasstore=econlib;  
%divindex (indata=econlib.ex1, outdata=newdata, var= wheat barley, outvar=cereal, opt=3)  
  
/*****  
Note  
Indata=input dataset (specify with libname)  
Outdata= output data (you can specify any name or use input dataset name to replace it)  
Var= variables used in the computation of the selected index  
Outvar= Variable name of newly created Indices (you can specify any name).  
opt=1 for HI, 2 for NHI, 3 for BI ,4 for NBI or any number for all the indices.  
*****/
```

2. Cuddy Della Valle Instability Index (CDI)

```
/* Preparation of dataset */
Data marine;
Input year m_exports;
Cards;
1999  1121977
2000  1233938
2001  1056658
2002  1190011
2003  1417853
2004  1249689
2005  1423707
2006  1311250
2007  1412334
2008  1597722
;
/* Invoking the macro */
options mstored sasstore=econlib;
%CDI (data=marine, var=m_exports, pfrom=2, pto=8)

/*****
Note
Var=specify variable name (only one variable need to be specified)
pfrom=period from (mention the starting observation number)
Pto=period to (mention the final obs no. which need to be included in the analysis)
*****/
```

3. Compound Annual Growth Rate (CGR)

```
/* Preparation of dataset */
Data marine;
Input year m_exports;
Cards;
1999      1121977
2000      1233938
2001      1056658
2002      1190011
2003      1417853
2004      1249689
2005      1423707
2006      1311250
2007      1412334
2008      1597722
;
options mstored sasstore=econlib;
%cgr(data= marine, var= m_exports, ma=3, pfrom=1, pto=8)
/*****
Note
Data=specify dataset name in full with library
Var=specify variable name (only one variable need to be specified)
Ma=moving average (if moving average is not required you can remove the term)
pfrom=period from (mention the starting observation number)
Pto=period to (mention the final obs no. which need to be included in the analysis)
*****/
```

4. Garret Scoring Technique

The model data set contains four ranks recorded against 15 statements of the respondents in a survey. To know the overall preferences of each statement, the Garret ranks are computed by calling the macro 'Garette' as illustrated below.

```
/* Preparation of dataset */
Data garettdata;
Input farmer  rank1  rank2  rank3  rank4;
Cards;
1      1      10      .      .
2      5      10      13      15
3      9      10      12      .
4      9      10      13      14
5      1      10      12      15
6      9      10      .      .
7      9      10      12      15
8      4      5      10      .
9      5      9      10      15
10     1      10      12      15
11     1      10      .      .
12     1      5      10      15
13     4      9      10      15
14     10     12      .      .
15     1      10      12      15
16     9      10      12      13
17     1      .      .      .
18     1      10      13      15
19     9      .      .      .
20     1      10      13      15
;
options mstored sasstore=econlib;
%garette (data=garettdata, var=rank, no=0, ns=18, mr=4)

/*****
Note
Var=specify generic variable name (eg. For rank1-rank10, specify var=rank)
no=correction factor (user can remove this or leave it as zero)
ns=no. of choices or statements
mr=maximum rank (specify the maximum no. of ranks used, it may or may not be equal to the
no. of statements).
*****/
```

5. DEMAND MODEL

Data set name : test_61b

```
/* Invocation of the macro */
options mstored sasstore=econlib;
%laaids (data=econlib.test_61b, dep1=cereals, dep2=pulses, dep3=veg, dep4=fruits,
dep5=ofood, indep_lninc=Impce30, indep_z=lhdsz, weights=wts)

/*****

Note
Data = specify dataset name in full with library
Dep1-dep5 = names of the consumption groups/articles
indep_lninc = natural log of total expenditure of the household
indep_z= other independent variables like household size, education, etc. including dummies
weights = weights (optional)
*****/
```