# ALOGIT Files

- ## Base Data File
  - Observations containing data on the characteristics of individuals, attributes of alternatives and the choices made
  - One record is for one individual
  - Each data item can be separated by space

- ## Control File
  - Contains control statements about how the data fields in the control file are to be interpreted, model is specified and program is to be executed

- ## Print File
  - the results of the model preparation/calibration are stored in this file

# Example Data File "test.dat"

```
1 15    7.50 30 0.0 20 3.50
2 10    7.50 15 0.0 10 3.50
3 05    7.50 20 0.0 07 3.50
3 25   25.00 60 0.0 20 5.00
2 10    7.50 12 0.0 10 3.50
1 20    7.50 35 0.0 23 5.50
3 25   27.50 90 0.0 20 7.50
1 15    7.50 30 0.0 20 3.50
2 10    7.50 15 0.0 10 3.50
```

Mode Chosen; TT - Auto; TC - Auto; TT - Walk; TC - Walk; TT - Bus; TC - Bus;

# Example Control File "test.bin"

```
Test model
-------------------------
- Control line
- Nothing to report
end
-------------------------
-Coefficient specifications
01 time
02 cost
-------------------------
choice=d1
-------------------------
-Auto
U1=p01*d2 + p02*d3
-Walk
U2=p01*d4 + p02*d5
-Bus
U3=p01*d6 + p02*d7
```

- A single line giving the title of the model

- Control lines terminating with END control

- Specifications of the coefficients to be estimated

- Transformations to be made to items in the base data file

- Specifications of the utility functions of alternatives

# Example Print File "test.bls"

```
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                                Test model


Last input data item in transformations or utilities     7



    4 transformation codes; maximum 5000



PREPARE transformations
CHOICE      = Data0001



Maximum Iterations 10
Convergence criterion is  .10E-01  Option 3

INFORMATION: No explicit specification - base file read with default format



Report of user selections

    0 Observations rejected because item 2012 = 1.00
```

# Example Print File "test.bls" contd.

```
DATA INPUT COMPLETED

  from data file : test.dat

Total observations read from file    :     9

Observations rejected by user tests  :     0

Observations rejected automatically  :     0

Observations accepted for processing :     9

Sum of weights of observations :          9.00


SPECIFICATION OF MODEL and DATA STATISTICS


Alternative   1: chosen    3.0 of available    9.0 observations

Coefficient      time   +    cost
Number (Con)    1 (F)        2 (F)
Start Value     .0000        .0000
…………………………..
……………………………
```

# Example Print File "test.bls" contd.

```
Convergence achieved after    8 iterations
Analysis is based on      9 observations

Likelihood with Zero Coefficients =     -9.8875

Likelihood with Constants only    =     -9.8875

Initial Likelihood                =     -9.8875

Final value of Likelihood         =     -4.1056

    "Rho-Squared" w.r.t. Zero      =   .5848

    "Rho-Squared" w.r.t. Constants =   .5848


ESTIMATES OBTAINED AT ITERATION  8
Likelihood =      -4.1056


            time         cost
 Estimate  -.8845      -1.124
Std. Error   .694        .893
"T" Ratio  -1.3        -1.3


Correlation of Estimates (multiplied by 1000)
                 1
    cost      2   964
Convergence (option 3) value is    .4333E-02
Normal finish after   0 mins. 00.1 secs.
```