

```
1  $PROBLEM ONE COMPARTMENT INTRAVENOUS BOLUS      ;DATE = 6/2/04 PROGRAMMER=XXXX
2                                                    ;Units: Time=hr, Concentration=ug/ml,
3                                                    ;Dose = 100 or 250 mg
4                                                    ;Clearance = L/hr, Volume = L
5
6  $DATA IV1EST_PAR.CSV IGNORE=C
7
8  $INPUT ID TIME CONC=DV AMT DOSE MDV
9
10 $SUBROUTINE ADVAN1 TRANS2
11
12 $PK
13   CL      = THETA(1)*EXP(ETA(1))      ;CL
14   V       = THETA(2)*EXP(ETA(2))      ;V
15   S1      = V
16
17 $ERROR
18   IPRED=F
19   Y=F+F*ERR(1)+ERR(2)                 ;Additive and proportional residual error model
20
21
22 $THETA (0.1,1)      ;POPCL
23 $THETA (1,10)      ;POPV
24
25 $OMEGA 0.09        ;BSVCL
26 $OMEGA 0.09        ;BSVV
27
28 $SIGMA 0.01        ;ERRCV
29 $SIGMA 1           ;ERRSD
30
31 $ESTIMATION METHOD=0 MAXEVAL=9999 PRINT=5 POSTHOC
32 $COVARIANCE
33
34 $TABLE ID TIME DV IPRED DOSE
35   NOPRINT ONEHEADER FILE=ivlest_par.fit
36
37
```