

```
1  $PROBLEM PROJECT singledose i.v infusion          ;DATE 6-2-04   PROGRAMMER:XXXX
2                                                    ;UNITS: Time=min,
3                                                    ;Concentration=ng/ml
4                                                    ;Clearance=L/min, Volume = L
5
6  $DATA infest_par.csv IGNORE=C
7
8  $INPUT ID TIME CONC=DV AMT RATE MDV
9
10 $SUBROUTINE ADVAN1 TRANS2
11
12 $PK
13     TVCL = THETA(1)
14     CL   = TVCL*EXP(ETA(1))          ;Clearance in L/min
15
16     TVV  = THETA(2)
17     V    = TVV*EXP(ETA(2))          ;Volume of distribution in L
18     S1   = V/1000                   ;Scaling factor to get
19                                           ;concentration in ng/ml
20
21 $ERROR
22     IPRED=F
23     Y=F+F*ERR(1)+ERR(2)
24
25
26 $THETA (0.01,1)          ;POPCL
27 $THETA (1,15,30)        ;POPV
28
29 $OMEGA 0.09              ;BSVCL
30 $OMEGA 0.09              ;BSVV
31
32 $SIGMA 0.01              ;ERRCV
33 $SIGMA 1                  ;ERRSD
34
35 $ESTIMATION METHOD=0 MAXEVAL=9990 PRINT=10 POSTHOC
36 $COVARIANCE
37
38 $TABLE ID TIME DV IPRED
39 NOPRINT ONEHEADER FILE= INFEST_par.fit
40
```