```
$PROBLEM PROJECT multiple oral dose       ;DATE 6-2-04          PROGRAMMER:XXXX
                                          ;UNITS: Time=hour, Concentration=ug/ml
                                          ;Dose=250 and 500mg, Clearance=L/hr, Volume =

$DATA multoralest_par.csv IGNORE=C

$INPUT ID TIME CONC=DV AMT II ADDL MDV
;II   = Interdose interval
;ADDL = Additional doses

$SUBROUTINE ADVAN2  TRANS2

$PK
   TVCL = THETA(1)
   CL   = TVCL*EXP(ETA(1))                ;Clearance in L/hr
   TVV  = THETA(2)
   V    = TVV*EXP(ETA(2))                 ;Central Volume of distribution in L
   TVKA = THETA(3)
   KA   = TVKA*EXP(ETA(3))
   S2   = V
   F1   = THETA(4)*EXP(ETA(4))              ;Bioavailability

$ERROR
   IPRED=F
   Y=F+F*ERR(1)+ERR(2)

$THETA (0.01,1)               ;POPCL
$THETA (1,10)                 ;POPV
$THETA (0.01,0.25)            ;POPKA
$THETA (0.01,0.5,1)           ;POPF1

$OMEGA 0.09                 ;BSVCL
$OMEGA 0.09                 ;BSVV
$OMEGA 0.09                 ;BSVKA
$OMEGA 0.09                 ;BSVF1

$SIGMA 0.0025               ;ERRCV
$SIGMA 1                    ;ERRSD

$ESTIMATION METHOD=0  MAXEVAL=9990 PRINT=10 POSTHOC
;$COVARIANCE

$TABLE ID TIME DV IPRED
NOPRINT ONEHEADER FILE=multoralest_par.fit
```