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$PROBLEM PHENOBARB WITH WEIGHT IN MODELS FOR CL AND V
$INPUT  ID TIME AMT WT APGR DV
$DATA   PHENO
$SUBROUTINE ADVAN1
$PK
    TVCL=THETA(1)+THETA(3)*WT
    CL=TVCL+ETA(1)
    TVVD=THETA(2)+THETA(4)*WT
    V=TVVD+ETA(2)
    ; THE FOLLOWING ARE REQUIRED BY PREDPP
    K=CL/V
    S1=V
$ERROR
    Y=F+ERR(1)
$THETA  (0,.0027) (0,.70) .0018 .5
$OMEGA  .000007, .3
$SIGMA   8
$ESTIMATION PRINT=5
$COVARIANCE
$TABLE ID TIME AMT WT APGR DV
$SCATTER  PRED VS DV UNIT
$SCATTER  RES VS WT

```