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$PROBLEM PHENOBARB
$INPUT  ID TIME AMT WT APGR DV
$DATA   PHENO
$SUBROUTINE ADVAN1
$PK
  TVCL=THETA(1)
  CL=TVCL+ETA(1)
  TVVD=THETA(2)
  V=TVVD+ETA(2)
                                ; THE FOLLOWING ARE REQUIRED BY PREDPP
  K=CL/V
  S1=V
$ERROR
  Y=F+ERR(1)
$THETA  (0,.0047) (0,.99)
$OMEGA  .0000055, .04
$SIGMA  25
$ESTIMATION PRINT=5
$TABLE  ID TIME AMT WT APGR
$COVARIANCE
$SCATTER PRED VS DV UNIT
$SCATTER RES VS WT

```