

```

*%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%;
*                               MMODEL2                               %;
*   MODEL 2 - SEPARATE INTERCEPTS & COMMON SLOPE                 %;
*   STDP=standard error of the mean predicted value                 %;
*%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%;
%MACRO MMODEL2;
DATA STABLNEW TEMP2 (KEEP=BNO BATCH); SET STABLNEW; BY BATCH;
RETAIN BNO 0;
IF FIRST.BATCH THEN DO; BNO=BNO+1; OUTPUT TEMP2; END;

%DO I = 1 %TO %EVAL(&NBATCH-1);
    IF BNO = &I THEN DUMMY&I=1;
    ELSE DUMMY&I=0;
%END;
OUTPUT STABLNEW;

PROC REG DATA=STABLNEW OUTEST=FITTED NOPRINT;
MODEL LEVEL = %DO I=1 %TO %EVAL(&NBATCH-1);
              DUMMY&I
              %END; TIME;
OUTPUT OUT=LIB.MODELXP1 P=PREDICT STDP=STD_ERR;

DATA FITTED; SET FITTED(RENAME=(INTERCEP=TEMP));
KEEP INTERCEP TIME BNO;
%DO I=1 %TO %EVAL(&NBATCH-1);
    BNO=&i;
    INTERCEP=TEMP+DUMMY&I;
    OUTPUT;
%END;
    INTERCEP=TEMP;
    BNO=&NBATCH;
    OUTPUT;

DATA FITTED; MERGE FITTED TEMP2; BY BNO;
%MODELX
%MEND MMODEL2;

```