

```

%macro _mtotper;

data _ex2(where=(not missing(period)));
  set sdtm.sv;
  by usubjid;
  /* find out type of study/dosing administration group */
  if epoch='WASH OUT 1' | epoch='PRODUCT USE 1' then period=1;
  else if epoch='WASH OUT 2' | epoch='PRODUCT USE 2' then period=2;
run;

/* count periods */
data _ex2a;
  set _ex2;
  by usubjid period;
  if first.usubjid and first.period then numper=1;
  else if first.period then numper+1;
run;

/* find total number of periods/dosing occasions per subject */
proc summary data=_ex2a noprint;
  var period;
  by usubjid;
  output out=_numdose    max=numper;
run;

data _null;
  set _numdose;
  maxp=max(maxp,numper);
  retain maxp;
  call symput('totper',compress(put(maxp,best.)));
run;

%mend _mtotper;

```