I'm Executing! What's My Name?
A SAS Macro to Generate the VMS SAS Program Name

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ABSTRACT

Have your clients ever been presented with SAS output and decided that they would like to generate the very same output using updated data. Or maybe they simply want you to make a few cosmetic changes to a report that you or someone did ’on the fly’ some time ago. Did you go back and wonder, “Where in the world is the SAS program that generated this baby?” Well, here is a macro that will allow VAX/VMS SAS programmers with a tool to generate the SAS program’s filename, user id, system time, and system date as a part of the output generated from an executed SAS program.

SOURCE CODE

The following AUTODOC macro allows for four parameters. The TYPE parameter indicates whether you are using a DATA step or a PROC. The FNUN parameter should be used when the TYPE parameter is P or p and indicates the footnote number. The NUM parameter is a table or listing number which is optional. And the COL parameter should be used when the TYPE parameter is D or d and specifies the column number to begin outputting the SAS program information on what I will refer to as the SOURCE line.

%macro autodoc(type,fnum,num,col);
/* USER is a symbol defined under VMS */
%let sysuser = %sysget(user);
%let start=%eval{%index(&vmssasin,.) +1) ;
%let name=%substr{&vmssasin,&start) ;
%let end=%eval{%index(&name, .)+&start-l);
%let namlnth = %eval{&end - &start};
%let prognam=%substr{&name,l,&namlnth};
%if &type=d or &type=D %then %do;
/* The put statement will be resolved for */
/* all DATA ~L~ statements */
put @&col "SOURCE:" +3 "&sysuser &prognam" +3 "(&sysdate &systime) &num";
%end;
%else if &type=p or &type=P %then %do;
/* The footnote will appear on all */
/* procedural output */
footnote &fnum "SOURCE: &sysuser &progname" (\&sysdate \&asystime) &num;
%end;
%mend;

MACRO INVOCATION TEST SOURCE CODE

The following code invokes the AUTODOC macro twice.

options sasautos={'bio_wk4:[rs61443.standard.software.au
tocall].sasautos};
/* TEST IN DATA STEP USING VARIABLE */
data _null_;
  y='DATA STEP TEST';
c1=2;
  put y:
 喑autodoc(d, L-XX, ,c1)
run;
/* TEST IN PROCEDURE */
data;
  y='PROCEDURE TEST';
run;
proc print;
  footnote 'footnote 1'
  footnote2 'footnote 2'
  %autodoc(p,3,T-XX)
run;

The first test passes the following parameters: d for DATA step, L-XX for listing number, and c1 for beginning print column number. As shown in the log, the SOURCE line begins printing in column 2.

NOTE: AUTOEXEC processing beginning: file is S45ZRA150:[BIO_WK4.RFRS.MYSAS.SOURCE]MYEXEC.SAS.
NOTE: Libref REQ was successfully assigned as follows:
  Engine: V608
  Physical Name: S45ZRA156:[BIO_WK4.RS61443.APPS.REQUEST]
Test two explicitly defines footnote 1 and footnote2. The parameter p is passed to indicate procedure output, the FNUM parameter is set as a constant of 3 in the macro call, and T-XX is the table number that I would like to be displayed in the SOURCE. As shown in the output SUGITEST.LIS file below, the SOURCE line outputs as footnote3.

```
OBS Y
1 PROCEDURE TEST
```

**SOURCE:** RFRS SUGITEST (19JAN95 16:14) T-XX

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