

SAS V8 **SUNKEN** Treasures

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GOTCHAS

Using AutoCall Macro Libraries and changing Paths

```
/**/ WHAT MYREFS.sas LOOKS LIKE and resides in PMACRO Library /**/
```

```
%MACRO myREFS;  
  FILENAME PMACRO 'PMACRO' ;  
  FILENAME PREMPGMS 'PREMPGMS';  
  FILENAME LOSSPGMS 'LOSSPGMS';  
  OPTIONS SASAUTOS=(PMACRO, PREMPGMS,LOSSPGMS,SASAUTOS);  
%MEND myREFS;
```

```
FILENAME PREMPGMS 'PREMPGMS';  
FILENAME PMACRO 'PMACRO' ; /**/ Points to PMACRO Library /**/  
OPTIONS CC=CR MAUTOSOURCE SOURCE SOURCE2 SASAUTOS=(PREMPGMS,PMACRO,SASAUTOS);  
options mprint mlogic symbolgen;  
%MYREFS;  
options nomprint nomlogic nosymbolgen;  
data test; x=1; run;
```

In SAS Version 6.12, here is the log showing NO ERRORS:

```
1
2     FILENAME PREMPGMS 'PREMPGMS';
3     FILENAME PMACRO   'PMACRO' ;
4     OPTIONS CC=CR MAUTOSOURCE SOURCE SOURCE2
SASAUTOS=(PREMPGMS,PMACRO,SASAUTOS);
5     options mprint mlogic symbolgen;
6     %MYREFS;
MLOGIC(MYREFS):  Beginning execution.
MPRINT(MYREFS):  FILENAME PMACRO 'PMACRO' ;
MPRINT(MYREFS):  FILENAME PREMPGMS 'PREMPGMS';
MPRINT(MYREFS):  FILENAME LOSSPGMS 'LOSSPGMS';
MPRINT(MYREFS):  OPTIONS SASAUTOS=(PMACRO, PREMPGMS,LOSSPGMS,SASAUTOS);
MLOGIC(MYREFS):  Ending execution.
7     options nomprint nomlogic nosymbolgen;
8     data test; x=1; run;
```

NOTE: The data set WORK.TEST has 1 observations and 1 variables.

In SAS Version 8.2, here is the log showing ERRORS:

```
1
2     FILENAME PREMPGMS 'PREMPGMS';
3     FILENAME PMACRO   'PMACRO'  ;
4     OPTIONS CC=CR MAUTOSOURCE SOURCE SOURCE2
SASAUTOS=(PREMPGMS,PMACRO,SASAUTOS);
5     options mprint mlogic symbolgen;
6     %MYREFS;
MLOGIC(MYREFS):  Beginning execution.
MLOGIC(MYREFS):  This macro was compiled from the autocall file
APPL5:[PLANNING.MACRO]MYREFS.SAS
MPRINT(MYREFS):  FILENAME PMACRO 'PMACRO' ;
ERROR: File is already open.
ERROR: Error in the FILENAME statement.
MPRINT(MYREFS):  FILENAME PREMPGMS 'PREMPGMS';
MPRINT(MYREFS):  FILENAME LOSSPGMS 'LOSSPGMS';
MPRINT(MYREFS):  OPTIONS SASAUTOS=(PMACRO, PREMPGMS,LOSSPGMS,SASAUTOS);
MLOGIC(MYREFS):  Ending execution.
7     options nomprint nomlogic nosymbolgen;
8     data test; x=1; run;
```

NOTE: The data set WORK.TEST has 1 observations and 1 variables.

In SAS Version 8.2, here is the log showing NO ERRORS:
Slight modification needed:

```
1
2     FILENAME PREMPGMS 'PREMPGMS';
3     FILENAME PMACRO   'PMACRO' ;
4     OPTIONS CC=CR MAUTOSOURCE SOURCE SOURCE2
SASAUTOS=(PREMPGMS,PMACRO,SASAUTOS);
5     options mprint mlogic symbolgen;
6     %include pmacro('MYREFS.sas');
NOTE: %INCLUDE (level 1) file PMACRO(MYREFS.sas) is file
APPL5:[PLANNING.MACRO]MYREFS.SAS.
7     +
8     + %macro myrefs;
9     +     FILENAME   PMACRO   'PMACRO' ;
10    +     FILENAME   PREMPGMS 'PREMPGMS';
11    +     FILENAME   LOSSPGMS 'LOSSPGMS';
12    +     OPTIONS    SASAUTOS=(PMACRO, PREMPGMS,LOSSPGMS,SASAUTOS);
13    + %mend myrefs;
NOTE: %INCLUDE (level 1) ending.
14    %MYREFS;
MLOGIC(MYREFS): Beginning execution.
MPRINT(MYREFS):  FILENAME PMACRO 'PMACRO' ;
MPRINT(MYREFS):  FILENAME PREMPGMS 'PREMPGMS';
MPRINT(MYREFS):  FILENAME LOSSPGMS 'LOSSPGMS';
MPRINT(MYREFS):  OPTIONS SASAUTOS=(PMACRO, PREMPGMS,LOSSPGMS,SASAUTOS);
MLOGIC(MYREFS): Ending execution.
15    options nomprint nomlogic nosymbolgen;
16    data test; x=1; run;
```

NOTE: The data set WORK.TEST has 1 observations and 1 variables.

Ian Whitlock's Answer to this Problem:

Subject: Re: OPENVMS Filename Error SAS V8.2

The problem is not a VMS problem. It is a logical one. You cannot *change* a fileref while it is pointing to an open file and the included file is open during the execution of the included code.

I have recreated the problem under windows without and macro code involved.

```
1  filename q "c:\junk" ;
2  %inc q(filename.sas) / source2 ;
NOTE: %INCLUDE (level 1) file Q(filename.sas) is file c:\junk\filename.sas.
3  +filename q "c:\junk" ;
ERROR: File is already open.
ERROR: Error in the FILENAME statement.
NOTE: %INCLUDE (level 1) ending.
```

One solution is to use to different filerefs as shown below.

```
4  filename q2 "c:\junk" ;
5  %inc q2(filename.sas) / source2 ;
NOTE: %INCLUDE (level 1) file Q2(filename.sas) is file c:\junk\filename.sas.
6  +filename q "c:\junk" ;
NOTE: %INCLUDE (level 1) ending
```

Another is to ignore the error or leave out the offending FILENAME statement.

Still another is to make the include file a macro. Then excite the macro *after* including it, as shown in

```
21 filename q "c:\junk" ;
22 %inc q(filename.sas) / source2 ;
NOTE: %INCLUDE (level 1) file Q(filename.sas) is file c:\junk\filename.sas.
23 +%macro mac ;
24 + filename q "c:\junk" ;
25 +%mend mac ;
NOTE: %INCLUDE (level 1) ending.
26 options mprint ;
27 %mac
MPRINT(MAC): filename q "c:\junk" ;
```

In your case you use the fileref for SASAUTOS. This ties up the fileref so that it cannot be changed. You will have to decide who is to be the master on the fileref and SASAUTOS - your program or your macro. SAS can serve only one master. However, the macro could ask if the fileref is already in use in the SASAUTOS option. If it is then skip the FILENAME and setting of SASAUTOS.

This allows setting in the main program while having the information and option of using it housed in the macro.

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