SAS Tips and Tricks

1

TASS

09 FEBRUARY 2018

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- DLCREATEDIR recursive macro

DLCREATE recursive macro

- ## From December 2017 TASS meeting, we learned:

DLCREATEDIR

```
options DLCREATEDIR; ** ← Turn on the SAS system option
to create a directory if it does not already exist **;

libname TASS "C:/TASS";

data TASS.TEMP;
      x=1;
run;
```

```
9    options DLCREATEDIR;  ** <-- Turn on the SAS system
option to create a directory if it
9  ! does not already exist **;
10   libname TASS "C:/TASS";
NOTE: Library TASS was created.
NOTE: Libref TASS was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\TASS

12   data TASS.TEMP;
13       x=1;
14   run;

NOTE: The data set TASS.TEMP has 1 observations and 1
variables.
NOTE: DATA statement used (Total process time):
      real time            1.29 seconds
      cpu time             0.00 seconds

      cpu time             0.00 seconds
```

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TASS September 2017

- We also learned :

```
Usage:

1. options NODLCREATEDIR;  <-- to switch this option off
2. DLCREATEDIR is available from 9.3 on.
3. Creates a single level only

libname TASS2017 "C:/TASS/2017/September";

libname TASS2017 "C:/TASS/";
libname TASS2017 "C:/TASS/2017";
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```

DLCREATE recursive macro (3)

- A possible solution for UNIX:

```
%macro cdir(mylib, mypath);
options dlcreatedir;
        data have_xyzzy;
                    orig_var = "&mypath.";
        run;
        proc sql noprint;
          select max(count(orig_var,'/')) into :maxelements from have_xyzzy;
        quit;
        %put number of levels = &maxelements.;

        %do i = 1 %to &maxelements.;
                    data _null_;
                    length mypat $160.;
                            drek = "&mypath.";
                            mypat = "";
                            do c = 1 to &i.;
                                        mypat = compress(mypat || '/' || scan(drek,c,'/'));
                            end;
                            call symput('mypat',mypat) ;
                    run;
                    %put looper = &i. path = &mypat.;
                    libname &mylib. "&mypat.";
        %end;
%mend;
%cdir(temp3, /sasdata/rsk/pra/devvol02/mytemp1/mytemp2/mytemp3);
```

DLCREATE recursive macro (4)

- A possible solution for UNIX:

```
%macro cdir(mylib, mypath);
options dlcreatedir;
        data have_xyzzy;
                    orig_var = "&mypath.";
        run;
        proc sql noprint;
          select max(count(orig_var,'/')) into :maxelements from have_xyzzy;
        quit;
        %put number of levels = &maxelements.;

        %do i = 1 %to &maxelements.;
                    data _null_;
                    length mypat $160.;
                            drek = "&mypath.";
                            mypat = "";
                            do c = 1 to &i.;
                                        mypat = compress(mypat || '/' || scan(drek,c,'/'));
                            end;
                            call symput('mypat',mypat) ;
                    run;
                    %put looper = &i. path = &mypat.;
                    libname &mylib. "&mypat.";
        %end;
%mend;
%cdir(temp3, /sasdata/rsk/pra/devvol02/mytemp1/mytemp2/mytemp3);
```

Sets local macro variable to count number of levels on the directory

Concatenates recursive string variable

Sets path as a macro variable

Sets lib reference and cerates directory if necessary

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