

Tips on Checking and Manipulating Filenames with SAS

SUMMARY/INTRODUCTION

This is a 10 minute paper with tips on 1. Checking the filenames in a folder against those in Excel TOCs. 2. Checking the timestamps of two related lists of filenames for internal logics. 3. Partial replacement of filenames for long descriptions in the bookmarks of combined PDF file with multiple tables or graphs.

READ IN FOLDER INFORMATION

Using the filename function to read the filenames from a folder and do a concatenation of the sas datasets.

```
libname ll 'c:\dat\dat_wkb';
```

```
*** Create a bunch of datasets and later to concatenate them ***;
```

```
%macro crt;
  %do i =1 %to 5;
    data ll.ds&i;
      name="tab_&i";
    run;
  %end;
%mend;
%crt
```

```
data lst;
  rc=filename('mdir','c:\dat\dat_wkb');

  if dopen('mdir')>0 then do;
    did=dopen('mdir');
    do i=1 to dnum(did);
      fname=dread(did,i);
      put fname=;
      output;
    end;
  end;
run;
```

```
*** using call execute to concatenate datasets on the folder ***;
```

```
proc sql noprint;
  select 'll.||scan(fname,1,') into :ds separated by ' '
  from lst
  where index(fname,'dat');
quit;
%put &ds;
```

```

data _null_;
  call execute('data comb;');
  call execute('set &ds;');
  call execute('run;');
run;

```

READ IN FOLDER INFORMATION WITH TIME STAMPS

The check on the relationship of filenames with their timestamps. A mark of 1 or 0 for correct sequence

** The filename and pipe method needs to invoke SAS in a special way to overcome the not enough space on the disk error message;

```

libname aa 'c:\2016\renam';
data aa.t_15_aa;
  nam='aa';
run;
data aa.t_15_bb;
  nam='bb';
run;
data aa.t_15_cc;
  nam='cc';
run;

filename getfiles pipe "dir c:\dat\dat_wkb";
data lst2;
  infile getfiles length=ll ;*trunccover;
  length buffer $256;
  input @;
  input  buffer $varying256. ll;

  dat=input(substr(buffer,1,10),mmddy10.);
**there are two spaces after date ;

  tim=input(substr(buffer,13,5),time5.);

  dt_tm=dhms(dat,0,0,tim);

  format dat yymmdd10. tim time5. dt_tm datetime20.;
  if index(buffer, '.sas');

run;

```

REPLACING PARTIAL FILENAMES

The replacement of partial filenames with long strings for combined PDF file with bookmarks of long descriptions for multiple tables sometimes is needed. The handling of special characters in such filenames can be done with temporary replacements. The conversion of the temporary replacements in the PDF file can be done with a third party insert called Debenu Aerialist.

*** file name manipulation ***;

```

data l_titl;
  length name $200 ;
  infile cards length =ll;
  input name $varying200. ll ;
cards;
Intra Pressure- Raw Mean (+-SE) of Score over Time (Study Ear) (Suspended Arms)
Intra Pressure- Raw Mean (+-SE) of Score over Time (Study Ear)
Raw Mean (+-SE) of Change from Baseline over Time (Study Ear)
;
run;

data phile;
length name $10;
infile cards;
input name $ 1-10;
cards;
aa
bb
cc
;
run;

proc sql;
  select name into :a1-:a10 from phile;
  select name into :b1-:b10 from l_titl;
quit;

%let a1=&a1;
%let a2=&a2;
%let a3=&a3;
%put a1=&a1.,a2=&a2 a3=&a3 ;

%let pas=%nrquote(c:\2016\renam\);
%let file_extension=%nrquote(sas7bdat);
*rc=rename("&pas.\t_15_&old..sas", "&pas.\t_15_&new..sas", 'file');

options mprint mlogic symbolgen;

%macro rename (old=, new=);

data _null_;
  rc=rename("&pas.t_15_&old..&file_extension", "&pas.t_15_&new..&file_extension", 'file');
  put rc;`
run;

%mend;

%macro cl;
%do i=1 %to 3;
%rename (old=&&a&i,new=&&b&i)
%end;
%mend;
%cl

```

```
%put &b1;

** Reference code outside of a macro **;
data _null_;
  rc=rename("&pas.t_15_aa.sas7bdat",&pas.t_15_Intraocular Pressure- Raw Mean (+-SE) of Score over
Time (Study Eye) (Suspended Arms).sas7bdat" , 'file');
  *rc=rename("&pas.fil" , "&pas.fil_check (namexx)" , 'file');
put rc;
run;
```

After the replacement of short strings with long ones in filenames, one can generate the combined PDF file with bookmarks in long descriptive strings. For special characters such as ':', '\', etc, one can temporarily replace them with strings like 'XX', 'YY' etc and change them back into their origins with Debenu Aerialist in Adobe Pro.

REFERENCE

The Power of "The FILENAME" Statement (2012)
Megha Agarwal, Gilead Sciences, Foster City, CA, USA

Rename of External File (2012)
Haikuo, on www.communities.sas.com

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