

Macro List

(shown in alphabetical order)

Shortcut to utility [macros](#)

List of Clinical macros

Jul 30	2007	allocr.sas
Jul 30	2007	allocw.sas
May 8	10:47	dosemerge.sas
May 8	10:41	locf.sas
Mar 26	2008	nodata.sas
May 19	15:01	npctpvals.sas
Aug 19	08:51	npcttab.sas
May 26	17:36	popfmt.sas
May 19	14:54	rgpp.sas
May 12	18:10	rgpp_old.sas
May 19	14:56	unicat2word.sas
Sep 17	12:07	unicatrep.sas
Aug 28	22:50	unimap.sas
May 26	16:46	unipvals.sas
Aug 28	22:33	unistatlabel.sas
Sep 23	17:29	unistats.sas

Clinical macro purposes

Index of members in this directory with standard headers

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(this list was generated by the crindex script)

allocr.sas	- Spectre (Clinical) example macro to allocate data libraries and formats in read mode. Usage: %allocr
allocw.sas	- Spectre (Clinical) example macro to allocate data libraries and formats in write mode. Usage: %allocw
dosemerge.sas	- Clinical reporting macro to merge dose in with date Usage:
locf.sas	- Clinical reporting macro to perform "Last Observation Carried Forward" processing. Usage:
nodata.sas	- To produce a "No Data" report

	<pre>Usage: %if not %nobs(dset) %then %do; %nodata %goto skip; %end;</pre>
<u>npctpvals.sas</u>	<p>- Clinical reporting macro that calculates p-values for the %npcttab macro.</p> <p>Usage: %npctpvals(dsin=data1,byvars=byvar1 byvar2,trtvar=trtgrp,respvar=resp,countvar=count,pvalstr=TRT9999)</p>
<u>npcttab.sas</u>	<p>- Clinical reporting macro to produce tables showing "n", the percentage and optionally the number of events.</p> <p>Usage: See tutorial with demonstrations on the Spectre web site</p>
<u>popfmt.sas</u>	<p>- Clinical reporting macro to create a treatment format that is the same as an existing format but with the (N=xxx) at the end.</p> <p>Usage: %popfmt(stat.acct(where=(xxx=1 and &_pop_.cd=1)),trtgroup)</p>
<u>rgpp.sas</u>	<p>- Create html graphical patient profiles</p> <p>Usage: %rgpp</p>
<u>unicat2word.sas</u>	<p>- Clinical reporting macro to produce a Word-style cell table from the dataset output from the %unistats macro of treatment-transposed categories counts and statistics.</p> <p>Usage: %unicat2word(dsin=_unitran,dest=print,dlim=';')</p>
<u>unicatrep.sas</u>	<p>- Clinical reporting macro to produce a report from the dataset output from the %unistats macro of treatment-transposed categories counts and statistics.</p> <p>Usage: %unicatrep(dsin=_unitran)</p>
<u>unimap.sas</u>	<p>- Function-style clinical reporting macro to map proc univariate labels to the actual stats keyword names.</p> <p>Usage: %let stats=%unimap(&labels);</p>
<u>unipvals.sas</u>	<p>- Clinical reporting macro to calculate statistics values and p-values for the %unistats macro.</p> <p>Usage:</p> <pre>%unipvals(dsin=means,dsout=out,trtvar=tmt,respvar=val,type=N)</pre>
<u>unistatlabel.sas</u>	<p>- To replace _statlabel values in the %unistats output dataset</p> <p>Usage: N/A</p>
<u>unistats.sas</u>	<p>- Clinical reporting macro to calculate proc univariate statistics and category counts with percentages with optional</p>

statistics added and by default to print a report.

Usage: %unistats(dsin=means,dsout=out,dspout=pout,trtvar=tmt,
varlist=val,stats=n mean min max std,statvarlist=val);

List of System macros

```
May 8 12:01 allocr.sas
May 8 12:02 allocw.sas
Oct 12 2009 autoexec.sas
May 8 12:26 closerep.sas
May 8 12:12 crprotlds.sas
May 8 12:14 crtitlesds.sas
May 8 12:15 ctitlepgmrk.sas
May 8 12:16 jobinfo.sas
May 8 12:21 layout2lsps.sas
May 8 12:25 openrep.sas
May 8 12:30 pagexofy.sas
May 8 12:36 proginf.sas
May 8 12:42 protinfo.sas
May 8 12:43 titlegen.sas
May 8 12:46 titles.sas
May 8 12:50 xytitles.sas
```

System macro purposes

Index of members in this directory with standard headers

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(this list was generated by the crindex script)

[allocr.sas](#) - Spectre (Clinical) example macro to allocate data libraries and formats in read mode.

Usage: %allocr

[allocw.sas](#) - Spectre (Clinical) example macro to allocate data libraries and formats in write mode.

Usage: %allocw

[closerep.sas](#) - Spectre (Clinical) macro to close the temporary file created by the %openrep macro for redirected sas output and copy to a final output file with page number labels added.

Usage: Should be used with the %titles and %openrep macros as below.

```
%allocr
%titles
%openrep
<reporting code>
%closerep
```

[crprotlds.sas](#) - Spectre (Clinical) macro to create a protocol dataset from a protocol details flat file.

Usage: %crprotlds(flatfile,der.study)

crtitlesds.sas

- Spectre (Clinical) macro to create a titles dataset from a titles flat file.

Usage: %crtitlesds(flatfile,der.titles)

ctitlepgmrk.sas

- Spectre (Clinical) macro to create a centered top title with a right-most "FF"x page mark.

Usage: %ctitlepgmrk("centred title")

jobinfo.sas

- Spectre (Clinical) macro to store important job information in global macro variables.

Usage: %jobinfo

layout2lsps.sas

- Spectre (Clinical) macro to calculate sas linesize and pagesize values based on paper type, margins and layout.

Usage:

```
%layout2lsps(lmargin=1.0,rmargin=0.75,tmargin=1.0,bmargin=1.0,  
paper=A4,layout=L10);
```

openrep.sas

- Spectre (Clinical) macro to redirect print output to a temporary file.

Usage: Should be used with the %titles and %closerep macros as below.

```
%allocr  
%titles  
%openrep  
<reporting code>  
%closerep
```

pagexofy.sas

- Spectre (Clinical) macro to add "Page x of Y" labels where the 'FF'x character is found and to make other special character substitutions.

```
Usage: %pagexofy(myfile.lst)  
%pagexofy(myfile.lst,style="Page x of Y")  
%pagexofy(myfile.lst,style="Seite x von Y")  
%pagexofy(myfile.lst,style="(PAGE X OF Y)")  
%pagexofy(myfile.lst,style="SEITE x")  
%pagexofy(myfile.lst,style="[SEITE x]")
```

proginfo.sas

- Spectre (Clinical) macro to store important program information in global macro variables.

Usage: %proginfo

protinfo.sas

- Spectre (Clinical) macro to store important protocol information in global macro variables.

Usage: %protinfo

[titlegen.sas](#)

- Spectre (Clinical) macro to generate titles and footnotes from a dataset of the style created by the %crtitlesds macro.

Usage: %titlegen(dsname)

[titles.sas](#)

- Spectre (Clinical) macro to create the titles and footnotes for a standard report.

Usage: Should be used with the %openrep and %closerep macros as below.

```
%allocr
%titles
%openrep
<reporting code>
%closerep
```

[xytitles.sas](#)

- Spectre (Clinical) macro to finish creating the header lines for the imaginary XenuYama pharmaceutical company style.

Usage: Must be called from within the %titles macro and must not be used standalone.

List of Utility macros

May	4	22:30	<u>addautos.sas</u>
May	4	22:35	<u>adddecodevars.sas</u>
May	4	22:36	<u>after.sas</u>
May	4	22:37	<u>age.sas</u>
May	4	22:39	<u>agedec.sas</u>
May	4	22:06	<u>aligndp.sas</u>
Apr	13	20:23	<u>allfmtvals.sas</u>
May	4	20:43	<u>alluniq.sas</u>
May	4	22:11	<u>attrc.sas</u>
May	4	22:08	<u>attrn.sas</u>
May	4	22:10	<u>attrv.sas</u>
May	4	19:41	<u>bydrop.sas</u>
May	4	18:09	<u>bytitle.sas</u>
May	4	19:49	<u>capmac.sas</u>
May	4	19:51	<u>capvar.sas</u>
May	4	19:53	<u>casestrmac.sas</u>
May	4	19:54	<u>casestrvar.sas</u>
May	4	19:37	<u>char2num.sas</u>
May	11	18:12	<u>checkv6.sas</u>
May	4	18:12	<u>chkuniq.sas</u>
May	4	19:55	<u>chompw.sas</u>
Jun	30	22:25	<u>clashlibs.sas</u>
Jun	30	17:05	<u>clashvars.sas</u>
May	4	19:35	<u>clength.sas</u>
May	4	19:56	<u>commas.sas</u>
May	8	13:20	<u>complibs.sas</u>
May	4	20:45	<u>compress.sas</u>
May	4	22:56	<u>compvars.sas</u>

May	4	20:46	<u>crdte.sas</u>
Sep	28	2008	<u>datanulldemo.sas</u>
May	4	19:32	<u>delhex.sas</u>
Apr	5	22:27	<u>delifexist.sas</u>
May	4	19:27	<u>delzero.sas</u>
May	4	22:59	<u>dequote.sas</u>
Jun	26	13:57	<u>dir.sas</u>
Jun	26	14:08	<u>dirfpq.sas</u>
Jul	2	10:59	<u>dln2sas.sas</u>
Jun	9	17:41	<u>doallitem.sas</u>
May	4	22:52	<u>dosfilesize.sas</u>
May	4	19:24	<u>dropvars.sas</u>
May	4	18:13	<u>dsall.sas</u>
May	8	13:25	<u>dsattrib.sas</u>
May	4	20:47	<u>dslabel.sas</u>
May	4	18:15	<u>dslist.sas</u>
May	4	20:48	<u>dtyscale.sas</u>
May	4	20:49	<u>duplvars.sas</u>
May	4	19:58	<u>endwith.sas</u>
Jul	25	20:59	<u>env2ds.sas</u>
Jul	25	21:00	<u>env2dsw7.sas</u>
May	4	19:59	<u>eqsuff.sas</u>
May	4	21:34	<u>equals.sas</u>
May	4	22:58	<u>fixnames.sas</u>
May	8	13:27	<u>fixvars.sas</u>
May	4	18:22	<u>flatten.sas</u>
May	4	18:26	<u>fmtord.sas</u>
Apr	13	20:25	<u>fmtpath.sas</u>
May	4	21:40	<u>fmts2fda.sas</u>
May	13	15:40	<u>getfmts.sas</u>
Sep	19	19:23	<u>gettittles.sas</u>
May	5	17:43	<u>getvalue.sas</u>
May	4	21:41	<u>globexist.sas</u>
May	4	22:40	<u>globlist.sas</u>
May	4	20:00	<u>hasvars.sas</u>
May	4	20:01	<u>hasvarsc.sas</u>
May	4	20:02	<u>hasvarsn.sas</u>
Jul	2	15:03	<u>hexchars.sas</u>
May	4	18:29	<u>hexcnt.sas</u>
Jul	26	18:24	<u>killsas.sas</u>
Jul	26	18:19	<u>killsess.sas</u>
May	4	20:03	<u>lafootnote.sas</u>
May	4	20:04	<u>latitle.sas</u>
May	4	19:47	<u>lcralign.sas</u>
May	4	21:42	<u>left.sas</u>
May	4	22:57	<u>liblist.sas</u>
May	4	19:14	<u>ljustify.sas</u>
May	4	18:35	<u>lookahead.sas</u>
May	4	20:05	<u>lowcase.sas</u>
May	4	19:13	<u>lrafootnote.sas</u>
May	4	19:10	<u>lratitle.sas</u>
Jun	26	13:56	<u>ls.sas</u>
Jun	26	14:11	<u>lsfpq.sas</u>
Sep	1	19:22	<u>lstattrib.sas</u>
May	4	22:22	<u>ltgtm1.sas</u>
May	1	13:06	<u>match.sas</u>
May	4	20:06	<u>maxtitle.sas</u>
Aug	12	19:02	<u>md5sum.sas</u>
May	4	18:39	<u>misscnt.sas</u>
May	4	22:55	<u>missvars.sas</u>
May	4	23:10	<u>mkformat.sas</u>
May	4	21:43	<u>modte.sas</u>
May	4	22:17	<u>mtype.sas</u>
May	4	22:43	<u>mvarlist.sas</u>

May	4	22:40	<u>mvarvalues.sas</u>
May	4	22:15	<u>nlobs.sas</u>
May	4	23:15	<u>nobs.sas</u>
May	4	21:46	<u>nodup.sas</u>
May	4	22:27	<u>nodupkey.sas</u>
May	4	20:07	<u>noquotes.sas</u>
May	4	22:00	<u>now.sas</u>
May	4	19:45	<u>numchars.sas</u>
May	4	20:08	<u>nvars.sas</u>
May	4	20:09	<u>nvarsc.sas</u>
May	4	20:10	<u>nvarsn.sas</u>
May	4	19:08	<u>optlength.sas</u>
May	4	22:20	<u>partialdates.sas</u>
Jun	12	11:11	<u>prefix.sas</u>
May	4	19:06	<u>printall.sas</u>
Feb	1	2011	<u>prxnames.sas</u>
May	4	21:47	<u>putvars.sas</u>
Sep	23	02:46	<u>qcompress.sas</u>
May	4	22:45	<u>qdequote.sas</u>
May	4	22:49	<u>qdosfileinfo.sas</u>
May	4	22:46	<u>qgetenv.sas</u>
Sep	23	02:47	<u>qleft.sas</u>
Sep	23	02:49	<u>qreadpipe.sas</u>
Sep	23	02:49	<u>qtrim.sas</u>
May	4	20:13	<u>quotecnt.sas</u>
May	4	22:16	<u>quotelst.sas</u>
May	4	20:14	<u>quotescan.sas</u>
May	4	19:04	<u>rafootnote.sas</u>
May	4	22:29	<u>rannomac.sas</u>
May	4	19:03	<u>ratitle.sas</u>
Aug	12	18:56	<u>rcmd2ds.sas</u>
Aug	12	18:57	<u>rcmd2log.sas</u>
Aug	12	18:52	<u>rcmd2mvar.sas</u>
May	4	21:55	<u>readfile.sas</u>
May	4	20:15	<u>remove.sas</u>
May	4	22:13	<u>removew.sas</u>
Feb	12	2011	<u>rename8.sas</u>
May	4	19:02	<u>replhex.sas</u>
Jun	12	19:22	<u>rinclude.sas</u>
May	4	18:58	<u>round.sas</u>
May	4	20:16	<u>rxmatch.sas</u>
Feb	2	2011	<u>sas2xpt.sas</u>
Jun	14	17:14	<u>savopts.sas</u>
Sep	19	19:25	<u>scanfile.sas</u>
Aug	19	00:25	<u>scanlog.sas</u>
May	4	18:44	<u>showhex.sas</u>
May	4	20:17	<u>sortedby.sas</u>
May	8	13:05	<u>splitmac.sas</u>
Aug	25	09:10	<u>splitvar.sas</u>
May	4	20:25	<u>substrw.sas</u>
Jun	12	11:10	<u>suffix.sas</u>
May	4	18:46	<u>supasort.sas</u>
May	4	22:06	<u>sysfmtlist.sas</u>
May	4	21:56	<u>therest.sas</u>
May	4	18:48	<u>titlelen.sas</u>
May	4	20:26	<u>trim.sas</u>
May	8	13:08	<u>v_macros.sas</u>
Sep	9	17:24	<u>var2mvar.sas</u>
May	4	20:27	<u>varfmt.sas</u>
May	4	21:57	<u>varinfmt.sas</u>
May	4	20:27	<u>varlabel.sas</u>
May	4	20:32	<u>varlen.sas</u>
May	4	20:31	<u>varlist.sas</u>
May	4	20:29	<u>varlistc.sas</u>

```

May  4 20:34 varlistn.sas
May  4 20:35 varnum.sas
May  4 20:36 vartype.sas
May  4 18:56 vaxis.sas
May  4 22:00 verify.sas
May  4 20:39 verifyb.sas
May  4 22:58 vwlist.sas
May  4 20:40 windex.sas
May  4 22:44 words.sas
Jun 26 14:22 xl2sas.sas
Sep 23 09:05 xlblocks.sas
Jun 26 14:21 xlsheets.sas
Feb  2 2011 xpt2sas.sas
May  4 22:23 yrcutoff.sas
May  4 18:54 zerogrid.sas

```

Utility macro purposes

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(this list was generated by the crindex script)

```

addautos.sas          - To concatenate a macro library onto the sasautos path

                        Usage: %addautos(mymacros)

adddecodevars.sas    - To add decode variables where a user format is specified

                        Usage: %adddecodevars(dsin=ds1,dsout=ds2)

after.sas            - Function-style macro to give you what comes directly after a
                        target string.

                        Usage: %let width=%after(&str,%str(width=),%str( w=));

age.sas              - In-datastep function-style macro to calculate the age of a person
                        on a date.

                        Usage: data test;
                        age=%age(dob,date);

agedec.sas          - In-datastep function-style macro to calculate the age of a person
                        on a date as a decimal age.

                        Usage: data test;
                        agedec=%agedec(dob,date);

aligndp.sas         - In-datastep macro to create a string from a numeric value with
                        decimal points aligned.

                        Usage: %aligndp(numvar,charvar,4);

allfmtvals.sas      - Create a dataset with every start value of a format in it

                        Usage: %allfmtvals(fmt=$country,var=country,dsout=temp1,length=2)
                        %allfmtvals(fmt=site,var=site,dsout=temp2)

```


<u>alluniq.sas</u>	<ul style="list-style-type: none">- To create a dataset with all unique occurrences of a variable throughout a library. <p>Usage: %alluniq(in,subject,allsubj)</p>
<u>attrc.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a character attribute of a dataset <p>Usage: %let dslabel=%attrc(dsname,label); %let sortseq=%attrc(dsname,sortedby);</p>
<u>attrn.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a numeric attribute of a dataset <p>Usage: %let nobs=%attrn(dsname,nlobs);</p>
<u>attrv.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a variable attribute <p>Usage: %let vartype=%attrv(dsname,varname,vartype);</p>
<u>bydrop.sas</u>	<ul style="list-style-type: none">- To drop by-group residuals <p>Usage: %bydrop(dsin,by1 by2)</p>
<u>bytitle.sas</u>	<ul style="list-style-type: none">- To drop the last title if it is a "by" title and write it to the global macro variable _bytitle_ instead. <p>Usage: %bytitle</p>
<u>capmac.sas</u>	<ul style="list-style-type: none">- Function-style macro to capitalise the first letter of each word in a macro string. <p>Usage: %let tidy=%capmac(%bquote(A, B AND C'S RESULTS));</p>
<u>capvar.sas</u>	<ul style="list-style-type: none">- In-dataset macro to tidy case of text in a variable <p>Usage: data lparmcd; set lparmcd; %capvar(put(lparmcd,lparmcd.),newvar, ignore="SGOT" "SGPT" "PTT" "LDH" "GGT" "BUN"); run;</p>
<u>casestrmac.sas</u>	<ul style="list-style-type: none">- Function-style macro to force mixed case forms of a string into the string itself for a macro expression. <p>Usage: %let newtext=%casestrvar(&oldtext,Roland);</p>
<u>casestrvar.sas</u>	<ul style="list-style-type: none">- In-dataset macro to force mixed case forms of a string into the string itself. <p>Usage: data test2; set test; %casestrvar(text,'Roland'); run;</p>
<u>char2num.sas</u>	<ul style="list-style-type: none">- To "effectively" convert a list of character variables to numeric

Usage: %char2num(test,test2,char1 char2 char3 char4)

[checkv6.sas](#)

- Check a dataset for Version 6 compatibility

Usage: %checkv6(sasuser.myds);

[chkuniq.sas](#)

- To check for uniqueness in key variables.

Usage: %chkuniq(dsname)

[chompw.sas](#)

- Function-style macro to cut out a word from a macro string and optionally cut out words before and/or after it.

Usage: %let str2=%chompw(&str1,&target,2,0,casesens=yes);

[clashlibs.sas](#) for

to

- To identify where there is a clash of variable characteristics the specified dataset(s) in the multiple assigned libraries and output diagnostics. Case is important for variable names. To make sure all variable names are created in upper case then use the system option VALIDVARNAME=UPCASE before you create the datasets.

Usage: %clashlibs(myds)

[clashvars.sas](#) for

- To identify where there is a clash of variable characteristics datasets in a library and to output diagnostics.

Usage: %clashvars(mylib)

[clength.sas](#)

- To create a length statement to unify character lengths in a list of data sets to the maximum variable length.

```
Usage: %clength(ds1 ds2 ds3);  
data all;  
  &_clength_;  
set ds1 ds2 ds3;  
run;
```

[commas.sas](#)

- Function-style macro to separate the elements of a list with commas.

Usage: order by %commas(&var1 &var2 &var3);

[complibs.sas](#)

- To "proc compare" identically-named datasets in two libraries

Usage: %complibs(base,comp)

[compress.sas](#)

- Function-style macro to compress a macro string

Usage: %let str2=%compress(&str,1234567890.);

[compvars.sas](#)

- To compare the differences in variables present in two datasets

and report the results to global macro variables.

```
Usage: %let ds1=dataset1;
%let ds2=dataset2;
%compvars(&ds1,&ds2)
options nosource;
%put NOTE: Variables found in &ds1 but not &ds2;;
%put &_left_;
%put NOTE: Variables found in &ds2 but not &ds1;;
%put &_right_;
%put NOTE: Variables found in both &ds1 and &ds2;;
%put &_both_;
options source;
```

crdte.sas

- Function-style macro to return the creation datetime stamp of a dataset.

```
Usage: %let crdte=%crdte(dsname);
```

datanulldemo.sas using

- Clinical reporting sample code to do a stacked-column report data _null_ that does not leave line gaps like proc report does.

Usage: Ordinary SAS code.

delhex.sas file.

- To delete occurrences of a specified hex character in a flat

```
Usage: %delhex(infile,outfile,'FE'x)
```

delifexist.sas

- To delete a dataset if it exists

```
Usage: %delifexist(sasuser.myds)
```

delzero.sas

use.

- To delete all datasets in a library with zero observations. This macro was written for illustration purposes and is of limited

```
Usage: %delzero(work)
```

dequote.sas

- Function-style macro to remove front and end matching quotes from a macro string and return the result.

```
Usage: %let str=%dequote(%qreadpipe(echo '%username%'));
```

dir.sas

- Function-style macro to return a list of members of a directory on a WINDOWS platform according to the file pattern you supply. If you supply just the directory name then all members are listed. This runs the MSDOS command in the form "dir /B mydir"

```
Usage: %let dirlist=%dir(C:\utilmacros);
%let dirlist=%dir(C:\utilmacros\*.sas);
```

dirfpq.sas

pattern

- Function-style macro to return a list of full-path quoted members of a directory on a Windows platform according to the file you supply.

	<pre>Usage: %let dirlist=%dirfpq(C:\utilmacros); %- NO GOOD -; %let dirlist=%dirfpq(C:\utilmacros*); %- GOOD -; %let dirlist=%dirfpq(C:\utilmacros*.sas); %- GOOD -;</pre>
d1m2sas.sas	<p>- To read in a delimited flat file and convert it to a sas dataset</p> <pre>Usage: %d1m2sas(C:\Mylib\myfile.csv,mydset)</pre>
doallitem.sas	<p>- To execute code for each item in a space-delimited list</p> <pre>Usage: %doallitem(dsa dsb dsc,'proc sort data=&item;by var;run;');</pre>
dosfilesize.sas	<p>- Function-style macro to return a DOS file size</p> <pre>Usage: %let filesize=%dosfilesize(C:\spectre\unistats.html);</pre>
dropvars.sas	<p>- To drop a list of unwanted variables in a list of datasets.</p> <pre>Usage: %dropvars(work._all,x1 x2)</pre>
dsall.sas the	<p>- To expand out the _all_ in a dataset list into all datasets in the library.</p> <pre>Usage: %dsall(sasuser.test work._all_); %let dsall=&_dsall_;</pre>
dsattrib.sas	<p>- To force a set of attributes, held in a template dataset, on another dataset.</p> <pre>Usage: %dsattrib(template,inds,outds)</pre>
dslabel.sas	<p>- Function-style macro to return a dataset label</p> <pre>Usage: %let dslabel=%dslabel(dsname);</pre>
dslist.sas	<p>- To list all the datasets in a libref.</p> <pre>Usage: %dslist(work); %let dslist=&_dslist_;</pre>
dtscale.sas	<p>- To generate a date scale for sas/graph</p> <pre>Usage: %dtscale(&min,&max);</pre>
duplvars.sas	<p>- Function-style macro to create a list of duplicate variables in a second dataset so that they can be dropped before a merge.</p> <pre>Usage: data newds; merge ds1 ds2(drop=%duplvars(ds1,ds2,&bylist)); by &bylist; run;</pre>
endwith.sas	<p>- Function-style macro to ensure any non-null value assigned to a macro variable ends with the specified character.</p>

	Usage: filename outfile "%endwith(&outdir,/)output.txt";
<u>env2ds.sas</u>	<ul style="list-style-type: none">- To write system and user environment variables to a dataset. Usage: %env2ds; %env2ds(OutputDatasetName);
<u>env2dsw7.sas</u>	<ul style="list-style-type: none">- To write system and user environment variables to a dataset for the Windows 7 operating system. Usage: %env2dsw7; %env2dsw7(OutputDatasetName);
<u>eqsuff.sas</u> variables)	<ul style="list-style-type: none">- Function-style macro to suffix a list of words (usually with an equals sign. Usage: put %eqsuff(&varlist);
<u>equals.sas</u>	<ul style="list-style-type: none">- In-dataset function-style macro to compare two numeric values to find if they are equal or very nearly equal. Usage: if %equals(vall,7.3) then ...
<u>fixnames.sas</u>	<ul style="list-style-type: none">- In-dataset macro to fix UTF-8 characters in a person's name by converting the UTF-8 character pairs back to ascii. Usage: data newpatinfo; set patinfo; %fixnames(invname) run;
<u>fixvars.sas</u>	<ul style="list-style-type: none">- To "fix" variables in a library so they are consistent Usage: fixvars(mylib,w);
<u>flatten.sas</u>	<ul style="list-style-type: none">- To "flatten" data so there is only one observation per "by group" Usage: %flatten(dsin=test,bygroup=by1 by2,vars=str num)
<u>fmtord.sas</u>	<ul style="list-style-type: none">- To create a numeric informat that maps a format label to its order position. Usage: %fmtord(agernge);
<u>fmtpath.sas</u>	<ul style="list-style-type: none">- Function-style macro to get the full fmtsearch path Usage: %let path=%fmtpath;
<u>fmts2fda.sas</u>	<ul style="list-style-type: none">- To create sas code to generate formats as found in your data Usage: %fmts2fda(mylib1 mylib2)

<u>getfmts.sas</u>	<ul style="list-style-type: none">- To get details of a list of user formats defined in a dataset <p>Usage: %getfmts(dsin=fmtlist,fmtvar=format,dsout=allfmts);</p>
<u>gettittles.sas</u>	<ul style="list-style-type: none">- To read the title lines of an LST file and write them to a global macro variable _tittles_ . <p>Usage: %gettittles(C:\temp\myfile.lst)</p>
<u>getvalue.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a variable's value <p>Usage: %let value=%getvalue(dsname,varname,1);</p>
<u>globexist.sas</u>	<ul style="list-style-type: none">- Function-style macro to return true if all the global macro variables listed exist. <p>Usage: %if %globexist(globvar) %then %do</p>
<u>globlist.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a list of current global macro variable names. <p>Usage: %let glist=%globlist;</p>
<u>hasvars.sas</u>	<ul style="list-style-type: none">- Function-style macro to return true if a dataset has all the variables defined to a list. <p>Usage: %if not %hasvars(dsname,aa bb cc) %then %do</p>
<u>hasvarsc.sas</u>	<ul style="list-style-type: none">- Function-style to return true if a dataset has all the character variables defined to a list. <p>Usage: %if not %hasvarsc(dsname,aa bb cc) %then %do</p>
<u>hasvarsn.sas</u>	<ul style="list-style-type: none">- Function-style macro to return true if a dataset has all the numeric variables defined to a list. <p>Usage: %if not %hasvarsn(dsname,aa bb cc) %then %do</p>
<u>hexchars.sas</u>	<ul style="list-style-type: none">- To show up ascii non-printables characters in a flat file by displaying their ascii codes as hexadecimal numbers in "< >" symbols. <p>Usage: %hexchars(infile.ext) %hexchars(infile.ext,"outfile.ext") %hexchars(infile.ext,outfile.ext) %hexchars("infile.ext") %hexchars("infile.ext",print) %hexchars("infile.ext","log")</p>
<u>hexcnt.sas</u>	<ul style="list-style-type: none">- To count the strange hex character in character variables <p>Usage: %hexcnt(dsname,droplist,globcnt=_hexcnt_,globvars=_hexvars_);</p>

<u>killsas.sas</u>	<ul style="list-style-type: none">- To kill any user's SAS session except the one running this macro <p>Usage: %killsas</p>
<u>killsess.sas</u>	<ul style="list-style-type: none">- To kill a Windows SAS session <p>Usage: %killsess %killsess(2)</p>
<u>lafootnote.sas</u>	<ul style="list-style-type: none">- To create a left-aligned footnote <p>Usage: %lafootnote(2," second footnote indented two spaces")</p>
<u>latitle.sas</u>	<ul style="list-style-type: none">- To create a left-aligned title <p>Usage: %latitle(2," second title indented two spaces")</p>
<u>lcralign.sas</u>	<ul style="list-style-type: none">- Write to a macro variable with the supplied text left, center and right-aligned. <p>Usage: %let macvar=; %lcralign(macvar,50,"left bit","center bit","right bit") %put macvar=*&macvar*;</p>
<u>left.sas</u>	<ul style="list-style-type: none">- Function-style macro to left-align the contents of a macro variable. <p>Usage: %let macvar=%left(&macvar);</p>
<u>liblist.sas</u>	<ul style="list-style-type: none">- To list all the libraries. <p>Usage: %liblist; %let liblist=&_liblist_;</p>
<u>ljustify.sas</u>	<ul style="list-style-type: none">- To left-justify all character fields in a dataset <p>Usage: %ljustify(dset)</p>
<u>lookahead.sas</u>	<ul style="list-style-type: none">- To do the opposite of lag and allow the user to look ahead at the variables in the following observations in the same by group. <p>Usage:</p>
<u>lowcase.sas</u>	<ul style="list-style-type: none">- Function-style macro to return a lower-case version of a macro variable's contents. <p>Usage: %let lcase=%lowcase(&string);</p>
<u>lrafootnote.sas</u> output	<ul style="list-style-type: none">- To left and right-align a two part footnote for a pure text <p>Usage: %lrafootnote(5,"Left aligned","Right-aligned")</p>

[lratitle.sas](#)

- To left and right-align a two part title for a pure text output
Usage: %lratitle(5,"Left aligned","Right-aligned")

[ls.sas](#)

- Function-style macro to return a list of members of a directory on a Unix platform according to the file pattern you supply. If you supply just the directory name then all members are listed. This runs the Unix command in the form "ls -l mydir" .
Usage: %let dirlist=%ls(/usr/utlimacros);
%let dirlist=%ls(/usr/utlimacros/*.sas);

[lsfpq.sas](#)

- Function-style macro to return a list of full-path quoted members of a directory on a Unix platform according to the file pattern you supply.
Usage: %let dirlist=%lsfpq(/usr/mylib); %- NO GOOD -;
%let dirlist=%lsfpq(/usr/mylib/*); %- GOOD -;
%let dirlist=%lsfpq(/usr/mylib/*.sas); %- GOOD -;

[lstattrib.sas](#)

- Lists the variable attributes of the specified dataset in the form of a LENGTH statement and ATTRIB statement that can be used in sas code.
Usage: %lstattrib(sasuser.demog)

[ltgtml.sas](#)

- In-dataset macro to turn a text numeric value into a numeric value and handle "<" and ">" signs preceding and adjust the value according to a rule (method 1).
Usage: %ltgtml(textvar,numvar);

[match.sas](#)
those

- Function-style macro to return elements of a list that match in a reference list.
Usage: %let match=%match(aa bb,aa cc);

[maxtitle.sas](#)
global

- To find the highest number title and footnote and output to macro variables.
Usage: %maxtitles

[md5sum.sas](#)

- To write the md5 checksum to the log for a two-level dataset stored on Unix or Linux.
Usage: %md5sum(outads.basco)

[misscnt.sas](#)

- To create a list of variables and their missing value count
Usage: %misscnt(dsname,droplist,globvar=_miss_);

[missvars.sas](#)

- To create a list of all-missing variables
Usage: %missvars(dsname);
run;


```
data dsname;
set dsname(drop=&_miss_);
run;
```

mkformat.sas

- To create a format out of a "coded" and "decoded" variable in a specified dataset.

```
Usage: %mkformat(dsname(where=
(x>1)),varcd,varcdcd,fmtname,fmtcat);
```

modte.sas

- Function-style macro to return the last modification datetime stamp of a dataset.

```
Usage: %let modte=%modte(dsname);
```

mtype.sas

- Function-style macro to return the member type of a dataset (i.e. whether DATA or VIEW).

```
Usage: %let mtype=%mtype(dsname);
```

mvarlist.sas

- Function-style macro to return a list of macro variable names satisfying the supplied scope.

```
Usage: %macro dummy(a=123,b=345,c=);
%let setparmlist=%mvarlist(dummy,s);
%mend dummy;
```

mvarvalues.sas

- Lists and resolves macro variables one per line for a supplied macro variable list.

```
Usage: %mvarvalues(&mvarlist,*);
%mvarvalues('%mvarlist(dummy9,a)',**);
```

nlobs.sas

- Function-style macro to return the number of logical observations (i.e. not marked for deletion) in a dataset or view. This will either be a positive integer or forced to zero.

```
Usage: %put >>>>> %nlobs(sashelp.class) >>>>;
%put >>>>> %nlobs(sashelp.class(where=(sex="M"))) >>>>;
%put >>>>> %nlobs(sashelp.vtable) >>>>;
```

nobs.sas

- Function-style macro to return the number of observations in a dataset or view. This will either be a positive integer or forced to zero.

```
Usage: %put >>>>> %nobs(sashelp.class) >>>>;
%put >>>>> %nobs(sashelp.class(where=(sex="M"))) >>>>;
%put >>>>> %nobs(sashelp.vtable) >>>>;
```

nodup.sas

- Function-style macro to drop duplicates in a space-delimited list

```
Usage: %let str=%nodup(aaa bbb aaa);
```

nodupkey.sas

- To sort "nodupkey" but list observations being dropped so that they can be investigated and accounted for.

```
Usage: %nodupkey(ds,var1 var2 var3)
```

noquotes.sas	<ul style="list-style-type: none">- Function-style macro to remove all quoted strings from a macro expression. <p>Usage: %let noquotes=%noquotes(&str);</p>
now.sas	<ul style="list-style-type: none">- Function-style macro to return the current timestamp <p>Usage: %put Stage1: %now;</p>
numchars.sas	<ul style="list-style-type: none">- To create a list of character variables that contain numeric-like text. <p>Usage: %numchars(dsname,globvar=_numchars_); %put ##### &_numchars_;</p>
nvars.sas	<ul style="list-style-type: none">- Function-style macro to return the number of variables in a dataset. <p>Usage: %let nvars=%nvars(dsname);</p>
nvarsc.sas	<ul style="list-style-type: none">- Function-style macro to return the number of character variables in a dataset. <p>Usage: %let nvarsc=%nvarsc(dsname);</p>
nvarsn.sas	<ul style="list-style-type: none">- Function-style macro to return the number of numeric variables in a dataset. <p>Usage: %let nvarsn=%nvarsn(dsname);</p>
optlength.sas	<ul style="list-style-type: none">- To create a length statement for character variables that take up less length than that allotted to the variable. <p>Usage: optlength(dset) data dset; &_optlength_; set dset; run;</p>
partialdates.sas	<ul style="list-style-type: none">- In-datastep macro to impute partial dates to a high or low value <p>Usage: data test; datestr="--feb08"; %partialdates(datetext=datestr,datevar=date,pattern="ddmmmyy", lohi=high); format date date9.; put date= datestr=; run; 29FEB2008</p>
prefix.sas	<ul style="list-style-type: none">- Function-style macro to return a list with a prefix added. <p>Usage: %let preflist=%prefix(C:\mylib\,fname1 "fname 2" fname3);</p>
printall.sas	<ul style="list-style-type: none">- To print every observation in a library where a variable

satisfies

a specified condition.

Usage: %printall(work,%str(num>1))

[prxnames.sas](#)

- Function-style macro to convert a space-delimited list of sas names (variable or dataset names) to a Pearl Regular Expression for use in the prxmatch() function that takes into account the ending colon notation.

Usage: %let dslist=var1 var2 vx;;
....where prxmatch(%prxnames(&dslist),memname);

[putvars.sas](#)

- To list variables in a dataset suffixed with an equals sign suitable for a "put" statement written to the log.

Usage: put %putvars(ds);

[qcompress.sas](#)

- Function-style macro to compress a macro variable string and return the result MACRO QUOTED.

Usage: %let tidy=%qcompress(&string);

[qdequote.sas](#)

- Function-style macro to remove front and end matching quotes from a macro string and return the result MACRO QUOTED.

Usage: %let str=%qdequote(%qreadpipe(echo '%username%'));
CLASS %unquote(%qdequote('&trtvar')) ;

[qdosfileinfo.sas](#)

- Function-style macro to return information about a DOS file and return the result MACRO QUOTED.

Usage: %let filesize=%qdosfileinfo(C:\spectre\unistats.html,z);

[qgetenv.sas](#)

- Function-style macro to get the contents of a system or user environment variable and return the result MACRO QUOTED.

Usage: %let newvar=%qgetenv(uservar);

[qleft.sas](#)

- Function-style macro to left-align the contents of a macro variable and return the result MACRO QUOTED.

Usage: %let macvar=%qleft(&macvar);

[qreadpipe.sas](#)

- Function-style macro to read the output of a system command and return the result trimmed and MACRO QUOTED.

Usage: %let mvar=%qreadpipe(echo \$USER);

[qtrim.sas](#)

- Function-style macro to trim the contents of a macro variable and return the result MACRO QUOTED.

Usage: %let macvar=%qtrim(&macvar);

[quoteCnt.sas](#)
expression

- Function-style macro to count quoted strings in a macro

```
Usage: %let count=%quoteCnt(&str);
```

quotelst.sas

- Function-style macro to quote the elements of a list

```
Usage: %if %index(%quotelst(varnames),"varname") %then...
```

quotescan.sas

- Function-style macro to scan for a quoted string in a macro expression.

```
Usage: %let scan=%quotescan(&str,2);
```

rafootnote.sas

- To right-align a footnote for a pure text output

```
Usage: %rafootnote(5,"This footnote 5 will be right-aligned")
```

rannomac.sas

- Compile Roland's annotate macros

```
Usage: filename webout "C:\spectre\";
```

```
goptions reset=all xpixels=1000 ypixels=6000 hpos=50 vpos=300
dev=gif gsfmode=replace transparency border
ftext='Arial' htext=1 cell ctext=CX483D8C; * DarkSlateBlue ;
```

```
ods listing close;
ods html path=webout body="annotest.html";
```

```
%rannomac
```

```
data test;
%dcLannovars
%rarrow(y=298,x1=20,x2=48)
%text(y=298,x=19,position='<',text="right-aligned text")
%rarrow(y=297,x1=20,x2=48,fillcolor='green',
linecolor='black',fillpattern='mempty')
%text(y=297,x=19,position='<',text="next line of text")
%text(y=296,x=19,position='<',
text="This has a hotspot but misaligned on the left",
color='maroon',
html="alt='This hotspot is misaligned on the left of the text'")
%box(y=295,x=25)
%box(y=295,x=35)
%box(y=295,x=45,html="alt='Third Box Hotspot'")
%text(y=295,x=19,position='<',
text="The third box ONLY should have a hotspot")
%bigbox(x1=20,y1=294.5,x2=50,y2=298.5,linecolor="brown")
run;
```

```
*- Set description to a space to stop whole output area -;
*- from having a hotspot and give the gif the same name -;
*- as the html body file. -;
proc ganno annotate=test description=" " name="annotest";
run;
```

```
*- If you rerun this code then you need to delete the -;
*- "annotest" grseg member in work.gseg so it can be -;
*- reused as a name in the "proc ganno" step. -;
proc greplay igout=gseg nofs;
delete annotest;
run;
```

```
quit;  
  
ods html close;  
ods listing;
```

ratitle.sas

- To right-align a title for a pure text output
- Usage: %ratitle(5,"This title 5 will be right-aligned")

rcmd2ds.sas

to

- To run a system command on the remote host and write the output the dataset RWORK._rcmd.
- Usage: %rcmd2ds(ls /root/usr/mylib)

rcmd2log.sas

to

- To run a system command on the remote host and write the output the log.

Usage: %rcmd2log(ps -fu userid); *- see details of a user-id -;
%rcmd2log(ps -fp 12345); *- see details of a process-id -;

rcmd2mvar.sas

to

- To run a system command on the remote host and write the output a macro variable on the local host.

Usage: %rcmd2mvar(ps -fu userid,mymvar); *- see details of a
%rcmd2mvar(ps -fp 12345,mymvar); *- see details of a process-id

user-id -;

-;

readfile.sas

- Function-style macro to read in a flat file and assign the contents to a macro variable.

Usage: %let mvar=%readfile(filename);

remove.sas

- Function-style macro to remove all occurrences of the target string(s) from another string.

Usage: %let string2=%remove(&string1,XXX,yyy,YYY);

removew.sas

- Function-style macro to remove all occurrences of the target word(s) from a source list of words.

Usage: %let colors2=%remove(&rainbow,green yellow);

rename8.sas

variable

- Function-style macro to return a variable rename list for names longer than 8 characters to shorten them to 8 characters.

Usage: data myds2;
set myds;
rename %rename8(myds);
run;

replhex.sas

file

- To replace occurrences of a specified hex character in a flat

with another specified character.

Usage: %replhex(infile,outfile,'FE'x,' ')

[rinclude.sas](#)

- To submit local sas code members in the remote session

Usage: %rinclude(mylib([mymacro1.sas](#)) "C:\mylib\mymacro2.sas"
%dirfpq(C:\macros*.sas);

[round.sas](#)

- To round all the numeric variables in a list of datasets.

Usage: %round(work._all_)

[rxmatch.sas](#)

a

- Function-style macro to return those space-delimited elements of list that match a specified rxparse pattern.

Usage: %let match=%rxmatch(apopa pop aapop popaa,pop \$s);
%put &match;
pop aapop

[sas2xpt.sas](#)

- Create multiple transport files from sas datasets

Usage: %sas2xpt((INDSLIB),%nrstr("V:\SAS\Two Parts\X&Y\temp\"));

[savopts.sas](#)

- Function-style macro to return a list of active sas options so that these options can be restored at a later point.

Usage: %let savopts=%savopts(missing mprint);
option &savopts;

[scanfile.sas](#)

limit

- Counts the number of lines of text in a file that contain the string or the regular expression you specify within the line you choose and optionally writes the line or blocks of lines to the log.

Usage: %scanfile(C:\temp\myfile.lst,Treated,3,casesens=no)

```
*-- Complex example of scanning all the sas programs  --;
*-- in a library and printing the "proc format" steps. --;
%doallitem(%greadpipe(dir /B C:\Mylib\*.sas),
' %scanfile(C:\Mylib\&item,proc format,
untilstr=run,notstr=cntlin,casesens=no) ');
```

[scanlog.sas](#)

- To scan sas log file(s) or the log window for important messages optionally using a "rules" file.

```
Usage: %scanlog("full-file-path-name")
%scanlog("full-file-path-name-1" "full-path-name-2")
%scanlog(fileref)
%scanlog(fileref(a.log) fileref(b.log))
%scanlog(fileref "full-path-name")
%scanlog(%lsfpq(/usr/mypath/*.log))
%scanlog(%dirfpq(C:\temp\*.log))
%scanlog(fileref(a.log) "full-path-name" %dirfpq(C:\temp\*.log))
%scanlog;          *- this is for interactive sas sessions -;
%scanlog(,log);    *- this is for interactive sas sessions -;
%scanlog(fileref,"output-file")
%scanlog(rulesfile=C:\temp\myrules.txt)
```

```
%scanlog(rulesfile="C:\temp\myrules.txt")
%scanlog(rulesfile="C:\temp\myrules.txt",prx=yes)
or in command line box for interactive sessions (note syntax):
gsubmit '%scanlog;'
```

showhex.sas

- To create a new dataset where hex characters in character variables are highlighted.

Usage: %showhex(test1,test2,cvar1 cvar2 cvar3)

sortedby.sas

- Function-style macro to return the variables a dataset is sorted by, or null if not sorted.

Usage: %let sortedby=%sortedby(dsname);

splitmac.sas

- Function-style macro to insert split characters in a macro string

Usage: %let str=The quick brown fox jumped over the lazy dog;
%let splitstr=%splitmac(&str,10);

splitvar.sas

- In-dataset macro to insert split characters in a string variable

Usage: data aaa;
set aaa;
%splitvar(oldvar,newvar,10,split=/,hindent=0);
run;

substrw.sas

- Function-style macro to substring words assigned to a macro variable.

Usage: %let whatsleft=%substrw(&mvar,4);
%let twothree=%substrw(&str,2,2);

suffix.sas

- Function-style macro to return a list with a suffix added.

Usage: %let sufflist=%suffix(.sas,fname1 "fname 2" fname3);

supasort.sas

- To sort a list of datasets by variables if they exist in the datasets.

Usage: %supasort(work._all_,date time)

sysfmtlist.sas

- In-dataset macro to list all the system formats

Usage: if format in (" " %sysfmtlist) then _fmt="SYS";
else _fmt="USR";

therest.sas

- Function-style macro to give you everything following any found target string character.

Usage: %let rest=%therest(&str,\/);

titlelen.sas

- To create a copy of sashelp.vtitle but with the length added.

Usage: %titlelen

[trim.sas](#)

- Function-style macro to trim the contents of a macro variable

Usage: %let macvar=%trim(&macvar);

[v_macros.sas](#)

- To compile the validation macros %mmm, %fmm, %dmm and set up global macro variables "mut", "rut", "exp" and "act".

Usage: %v_macros

```
%let mut=removew;  
%let rut=req001 req002;  
%let days=mon tue wed thu fri sat;  
%let act=%&mut(&days,tue fri);  
%let exp=mon wed thu sat;  
%mmm
```

[var2mvar.sas](#)

- To write data in a variable to a global macro variable

Usage: %var2mvar(sashelp.class(where=(name="A")),name);
%put **&_mvar**;
Alfred Alice

[varfmt.sas](#)

- Function-style macro to return a variable format

Usage: %let varfmt=%varfmt(dsname,varname);

[varinfmt.sas](#)

- Function-style macro to return a variable informat

Usage: %let varinfmt=%varinfmt(dsname,varname);

[varlabel.sas](#)

- Function-style macro to return a variable label

Usage: %let varlabel=%varlabel(dsname,varname);

[varlen.sas](#)

- Function-style macro to return a variable length

Usage: %let varlen=%varlen(dsname,varname);

[varlist.sas](#)

- Function-style macro to return a list of variables in a dataset

Usage: %let varlist=%varlist(dsname);

[varlistc.sas](#)

- Function-style macro to return a list of character variables in a dataset.

Usage: %let varlistc=%varlistc(dsname);

[varlistn.sas](#)

- Function-style macro to return a list of numeric variables in a dataset.

Usage: %let varlistn=%varlistn(dsname);

<u>varnum.sas</u>	<p>- Function-style macro to return the variable position in a dataset or 0 if not in dataset.</p> <p>Usage: %let varnum=%varnum(dsname,varname);</p>
<u>vartype.sas</u>	<p>- Function-style macro to return a variable type as either C or N</p> <p>Usage: %let vartype=%vartype(dsname,varname);</p>
<u>vaxis.sas</u>	<p>- To generate the values to construct a vaxis scale</p> <p>Usage: %vaxis(&min,&max,spare=1)</p>
<u>verify.sas</u> character	<p>- Function-style macro to return the position of the first in a string that does not match any character in a reference string.</p> <p>Usage: %let pos=%verify(&text,%str()); %*- first non-blank</p>
character -;	
<u>verifyb.sas</u> character	<p>- Function-style macro to return the position of the first in a string that does not match any character in a reference string BUT STARTING FROM THE BACK.</p> <p>Usage: %let pos=%verifyb(&text,%str()); %*- last non-blank</p>
character -;	
<u>vwlist.sas</u>	<p>- To list all the views in a libref.</p> <p>Usage: %vwlist(work); %let vwlist=&_vwlist_;</p>
<u>windex.sas</u> string	<p>- Function-style macro to return the word count position in a</p> <p>Usage: %let windex=%windex(string,target);</p>
<u>words.sas</u>	<p>- Function-style macro to return the number of words in a string</p> <p>Usage: %let words=%words(string);</p>
<u>xl2sas.sas</u>	<p>- Read an Excel spreadsheet into a sas dataset using DDE</p> <p>Usage: %xl2sas(xlfile=C:\myfiles\My Spread Sheet.xls,sheetname=Sheet1, dsout=sasuser.myspread,compress=no,vpref=_col,vlen=50, startrow=5,startcol=1,endrow=95,endcol=10)</p>
<u>xlblocks.sas</u>	<p>- Read an Excel spreadsheet sheet containing blocks of information using DDE with each block output as a numbered dataset.</p> <p>Usage: %xlblocks(xlfile=C:\myfiles\My Sheet.xls,sheetname=Sheet</p>
One,	

	<pre>dspref=sasuser.myspread,compress=no,vpref=col,vlen=40);</pre>
<u>xlsheets.sas</u>	<ul style="list-style-type: none">- Get a list of sheet names (topics) from an Excel spreadsheet using DDE and write them to a global macro variable. <p>Usage: %xlsheets(C:\Mydata\Spread Sheet Name.xls);</p>
<u>xpt2sas.sas</u>	<ul style="list-style-type: none">- Convert all the .xpt files in a folder to sas datasets <p>Usage: %xpt2sas(%nrstr("V:\SAS\Two Parts\X&Y\"), %nrstr("V:\SAS\Two Parts\X&Y\temp\"));</p>
<u>yrcutoff.sas</u> the	<ul style="list-style-type: none">- To set the year cutoff option to a number of years previous to current year. 90 is the default which is suitable for clinical reporting. <p>Usage: %yrcutoff</p>
<u>zerogrid.sas</u>	<ul style="list-style-type: none">- To create a "grid" of combined values with a variable set to zero for all combinations of values. <p>Usage: %zerogrid(dsout=grid,var1=subject,ds1=demog,var2=tmtarm, ds2=demog,zerovar=count,sortby=tmtarm subject) %zerogrid(zerovar=str,zero=" 0 (0.0)",var1=trtrand ddose, ds1=period1,var2=day,ds2=period1)</p>

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