

# How to use the %lswbatch macro

## Purpose

The %lswbatch macro extends the support of the locale in your SAS System. %lswbatch generates host-to-host translation tables that are used by PROCs UPLOAD and DOWNLOAD for SAS data set transfer, Cross Environment Data Access (CEDA), and Remote Library Services (RLS).

Through use of the %lswbatch macro, a user may specify the target encoding for either a local or remote system. This will subsequently load the indicated trantabs for use in data conversion or generation. The macro handles both traditional and open EBCDIC and, for backwards compatibility, supports TRABASE naming conventions. In v9 of the SAS system %lswbatch can be used to set up a V8 remote server.

## General syntax

The basic syntax for %lswbatch is:

```
%lswbatch(parameter=value) ;
```

## Description of parameters

The following parameters can be used:

- **locale**

sets the locale of the SAS session. Valid values of language/country selections are listed in the SAS(R) 9.1 National Language Support (NLS) User's Guide.

- **encoding**

sets the encoding of the SAS session. It contains additional encoding choices for the language and locale that you have already chosen. By default, the primary encoding will be set. Valid values are listed in the SAS(R) 9.1 National Language Support (NLS) User's Guide.

- **trabase**

allows supporting TRABASE naming conventions. Valid values are on/off; default is off.

- **remote**

enables the upload of the trantabs to a remote system after a remote session has been established. Valid values are on/off; default is off.

- **scanner**

allows to choose whether or not the SAS scanner translation tables are used (6th or 8th slot of the TRANTAB= system option). This option only applies when either the target or source are on EBCDIC-based systems. The scanner trantab reassigns variant characters from the value in the ENCODING option encoding to value in the compiler encoding. This reassignment only occurs for characters in your SAS syntax, not for characters that are in quoted strings or data lines. Valid values are on/off; default is off.

- **rname**

allows specifying a name for the remote session.

- **ebcdic**

On EBCDIC platforms, the newline character (NL) is encoded as '15'x. ASCII platforms use the line feed character (LF) encoded at '0A'x. In SAS, we have created Open Edition encodings, which ensure that the mapping between EBCDIC NL and ASCII LF is correct. The ENCODING option is set to an Open Edition version of the EBCDIC encoding when you run SAS with NLS Compatibility Mode turned off (NONLSCOMPATMODE).

SAS also supports Traditional EBCDIC encodings that map the NL to ASCII NL, which is position '85'x. The EBCDIC line feed (LF) at '25'x is mapped to ASCII LF at '0A'x. The ENCODING option is set to the traditional EBCDIC encoding for the locale for NLS Compatibility Mode (NLSCOMPATMODE).

Valid values are te/oe (Traditional EBCDIC vs. Open EBCDIC); default is te in v8, oe in v9.

- **sysadm**

Valid values are on/off; default is off. If the System Administrator option is on, the translation tables will be copied from SASUSER.PROFILE to SASCFG.HOST. You need to have WRITE access to SASCFG or SASHELP, and you should be aware that your updates may overwrite catalog entries shared by users across the system.

## Usage examples

To run the locale setup on the client, submit the macro as follows:

```
%lswbatch(locale=finnish);
```

This creates the following output:

```
*****
* Running locale in batch mode
*****
*   host value= WIN
*   sysadm value= off
*   remote value= off
*   scanner value= off
*   ebcdic value= te
*   locale value= Finnish ( CL_FINNISH - CL_DEFAULT_LOCALE )
*****
NOTE: SASHELP.LOCALE.E143WLT1.TRANTAB copied to SASUSER.PROFILE._0000060.TRANTAB
NOTE: SASHELP.LOCALE.E143P858.TRANTAB copied to SASUSER.PROFILE._00000A0.TRANTAB
NOTE: SASHELP.LOCALE.LAT9WLT1.TRANTAB copied to SASUSER.PROFILE._0000050.TRANTAB
NOTE: SASHELP.LOCALE.LAT9P858.TRANTAB copied to SASUSER.PROFILE._0000090.TRANTAB
NOTE: SASHELP.LOCALE.P858WLT1.TRANTAB copied to SASUSER.PROFILE._00000C0.TRANTAB
NOTE: SASHELP.LOCALE.AROMWLT1.TRANTAB copied to SASUSER.PROFILE._0000140.TRANTAB
NOTE: SASHELP.LOCALE.AROMP858.TRANTAB copied to SASUSER.PROFILE._0000180.TRANTAB
NOTE: PROCEDURE DISPLAY used:
      real time          0.60 seconds
      cpu time           0.59 seconds
```

To run the locale setup on the server, you would sign on to your server, then run the macro as follows:

```
%lswbatch(locale=finnish, remote=on);
```

NOTE: This statement is submitted locally, not remote submitted.

If you use an autoexec file to do your sign on, you can place the %lswbatch() macro setting in an autocall after your signon statement.

To create trantabs using TRABASE naming conventions, submit the following:

```
%lswbatch(locale=finnish, trabase=on);
```

This creates the following output:

```
*****
* Running locale in batch mode
*****
*   host value= WIN
*   sysadm value= off
*   remote value= off
*   scanner value= off
*   ebcdic value= te
*   locale value= Finnish ( CL_FINNISH - CL_DEFAULT_LOCALE )
*****
NOTE: SASHELP.LOCALE.E143WLT1.TRANTAB copied to SASUSER.PROFILE._0000060.TRANTAB
NOTE: SASHELP.LOCALE.E143P858.TRANTAB copied to SASUSER.PROFILE._00000A0.TRANTAB
NOTE: SASHELP.LOCALE.LAT9WLT1.TRANTAB copied to SASUSER.PROFILE._0000050.TRANTAB
NOTE: SASHELP.LOCALE.LAT9P858.TRANTAB copied to SASUSER.PROFILE._0000090.TRANTAB
NOTE: SASHELP.LOCALE.P858WLT1.TRANTAB copied to SASUSER.PROFILE._00000C0.TRANTAB
NOTE: SASHELP.LOCALE.AROMWLT1.TRANTAB copied to SASUSER.PROFILE._0000140.TRANTAB
```

NOTE: SASHELP.LOCALE.AROMP858.TRANTAB copied to SASUSER.PROFILE.\_0000180.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1E143.TRANTAB copied to SASUSER.PROFILE.SWEWTE.TRANTAB  
NOTE: SASHELP.LOCALE.E143WLT1.TRANTAB copied to SASUSER.PROFILE.SWEETW.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1P858.TRANTAB copied to SASUSER.PROFILE.SWEWTA.TRANTAB  
NOTE: SASHELP.LOCALE.P858WLT1.TRANTAB copied to SASUSER.PROFILE.SWEATW.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1AROM.TRANTAB copied to SASUSER.PROFILE.SWEWTM.TRANTAB  
NOTE: SASHELP.LOCALE.AROMWLT1.TRANTAB copied to SASUSER.PROFILE.SWEMTW.TRANTAB  
NOTE: SASHELP.LOCALE.LAT9WLT1.TRANTAB copied to SASUSER.PROFILE.SWEITW.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1LAT9.TRANTAB copied to SASUSER.PROFILE.SWEWTI.TRANTAB  
NOTE: SASHELP.LOCALE.IDENTITY.TRANTAB copied to SASUSER.PROFILE.SWEWTW.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1\_UCS.TRANTAB copied to SASUSER.PROFILE.SWEUCS.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1\_LCS.TRANTAB copied to SASUSER.PROFILE.SWELCS.TRANTAB  
NOTE: SASHELP.LOCALE.WLT1\_CCL.TRANTAB copied to SASUSER.PROFILE.SWECCCL.TRANTAB  
NOTE: PROCEDURE DISPLAY used:  
    real time            0.65 seconds  
    cpu time             0.57 seconds