

Overview

SAS log files are generated when a SAS program is executed. Checking the log file for any unwanted messages such as “ERROR” or “WARNING” or any specific “NOTES”, is an important part of the validation process and enables us to make our programs and output of desired quality and error free. Log_check.sas is a utility program that automates the log checking process by scanning through one or more SAS log files in a specific folder/subfolder, for predefined unwanted messages that are stored in a separate txt file and produces a summary report of the results. The report contains key information that will assist the programmer in fixing the code to support clean execution of the program, without producing unwanted messages. This program is an efficient time-saving utility that runs on a Windows SAS server and works with all 9.x versions of SAS.

Key Highlights

- 1) Resultant file for single log file will be a txt file. 0KB file denote a clean log.
- 2) Resultant file for multiple log files is an excel file.
- 3) Logs from multiple folders can also be checked at once.
- 4) Rules are stored in a separate metadata file for ease of maintenance.

List of rules under Log Check Rules txt file

```
logcheck_rules.txt - Notepad
File Edit Format View Help
error (as per SOP)
warning (as per SOP)
merge statement contains repeats of by variables (as
uninitialized (as per SOP)
w.d format (as per SOP)
missing (as per SOP)
division by zero (as per SOP)
outside the axis range (as per SOP)
invalid (as per SOP)
overwritten (as per SOP)
could not be loaded (as per SOP)
not exist (as per SOP)
extraneous (as per SOP)
was not found (as per SOP)
could not be performed (as per SOP)
not resolved (as per SOP)
converted to (as per SOP)
more than one data set with repeats of by values
uerror
argument to function
experimental in release
lost card
not previously
_error_=1
endsas
uwarning
sas went to a new line
one or more lines were truncated
format was too small for the number to be printed
note: formatted values of
could not be written
```

Macro call

```
%log_check(
  log_path=,
  out_path=,
  out_excel=,
  subfolder=,
  logfile=);
```

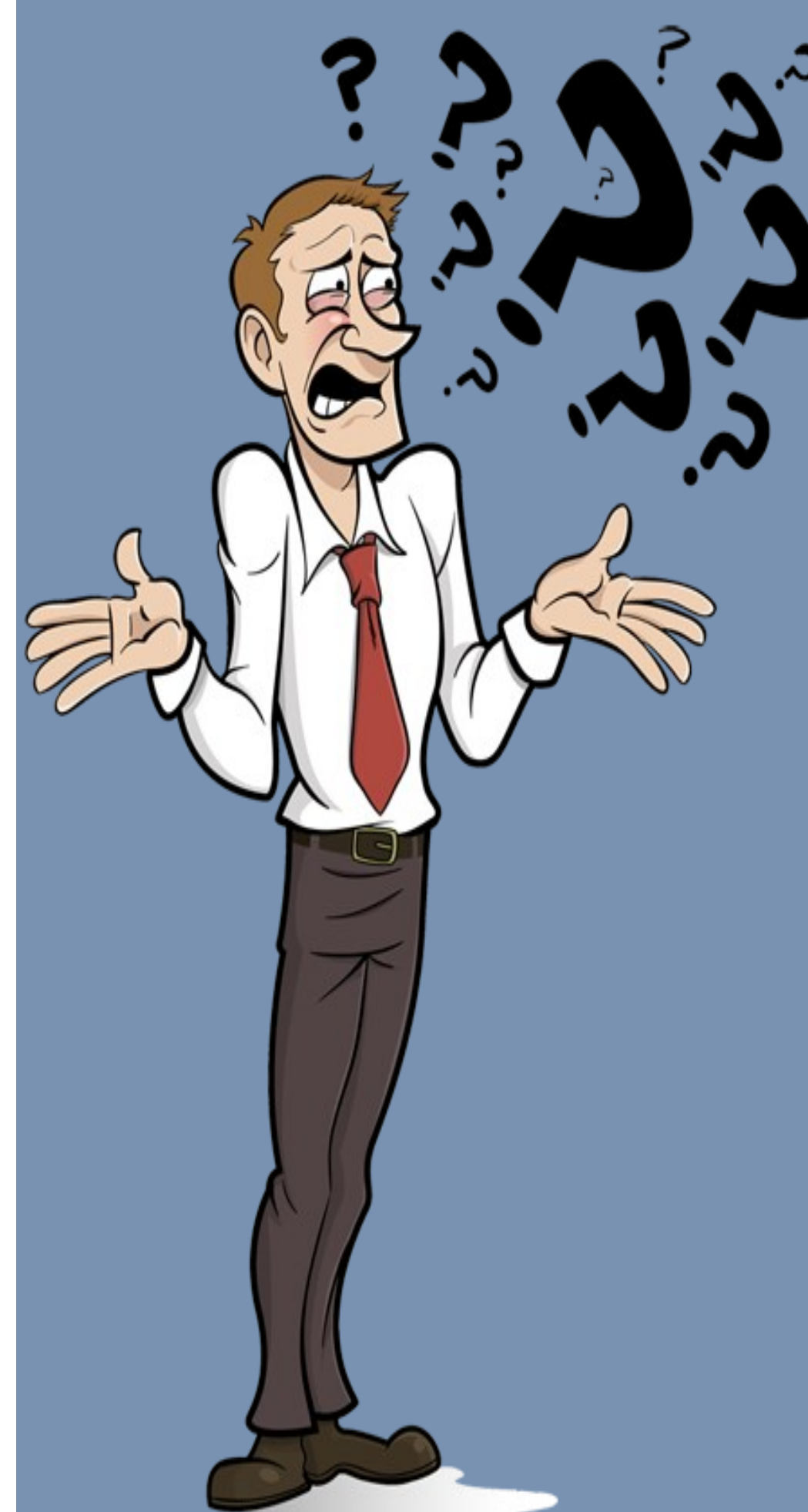


Logic

The method used to submit SAS programs, in batch mode. The macro also will ensure that once the log for the executed SAS program is saved, a log check will be performed on the saved log and the resultant *.log_chk txt file will also be saved in the same location as that of the log file.

This ensures that log check is performed on each and every SAS program log automatically.

The utility can be used to check log single or multiple log files.

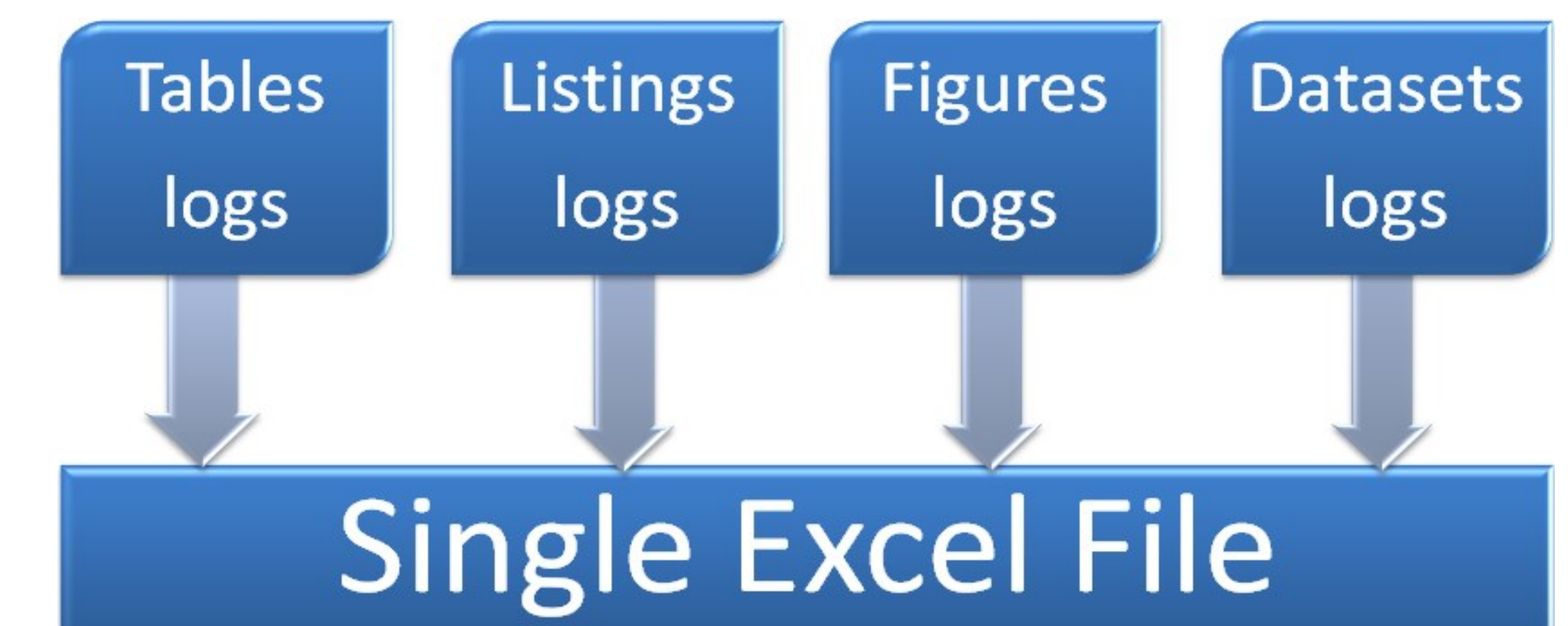


Are your Study Logs Clean?



US 2019

Automated Log Checking with LOG_CHECK.SAS



Excel file generated for multiple log files ***

File Name	Unwanted Message	Log check rule	Total count of occurrence	Line number of first occurrence	File Modification date	File Modification time
\\dev\programs\lae_socpt.log	NO ERRORS OR WARNINGS WERE FOUND				20/11/2018	12:14
\\dev\programs\listings\logs\ae_legend.log	NO ERRORS OR WARNINGS WERE FOUND				29/11/2018	12:23
\\dev\programs\listings\logs\disc.log	NOTE: VARIABLE E0SDT IS UNINITIALIZED.	UNINITIALIZED (AS PER SOP)	1	223	28/11/2018	17:39
\\dev\programs\listings\logs\disc.log	WARNING: THE DATA SET WORK_FILE_ MAY BE INCOMPLETE. WHEN THIS STEP WAS STOPPED THERE WERE 0 OBSERVATIONS AND 1 VARIABLES.	WARNING (AS PER SOP)	1	355	28/11/2018	17:39
\\dev\programs\listings\logs\disc.log	ERROR: ERRORS PRINTED ON PAGE 7.	ERROR (AS PER SOP)	1	376	28/11/2018	17:39
\\dev\programs\listings\logs\disc.log	NOTE: VARIABLE E0SDT IS UNINITIALIZED.	UNINITIALIZED (AS PER SOP)	1	223	24/11/2018	12:17
\\dev\programs\listings\logs\disc.log	NOTE: THE FILE WORK_FILE_ (MEMTYPE=DATA) WAS NOT FOUND, BUT APPEARS ON A DELETE STATEMENT.	WAS NOT FOUND (AS PER SOP)	1	429	24/11/2018	12:17
\\dev\programs\tables\logs\run_all.log	NO ERRORS OR WARNINGS WERE FOUND				20/11/2018	15:03
\\dev\programs\tables\logs\3_24_aemgr.log	NO ERRORS OR WARNINGS WERE FOUND				20/11/2018	12:19

TXT file generated for single log file ***

Messages below are found in the log		
(AS PER SOP)	ERROR	7
(AS PER SOP)	MISSING	2

Line #	Message	
26	ERROR: <DATA_CUTOFF>: 'INPUT_XLS' CANNOT BE BLANK OR MISSING.	
28	ERROR: <DATA_CUTOFF>: 'OUTPUT_XLS' CANNOT BE BLANK OR MISSING.	
35	ERROR: <DATA_CUTOFF>: 'EXPECTING AN .XLS FILE FOR 'INPUT_XLS'.	
37	ERROR: <DATA_CUTOFF>: 'EXPECTING AN .XLS FILE FOR 'OUTPUT_XLS'.	

***Note All Screen shots only display a part of full file.