



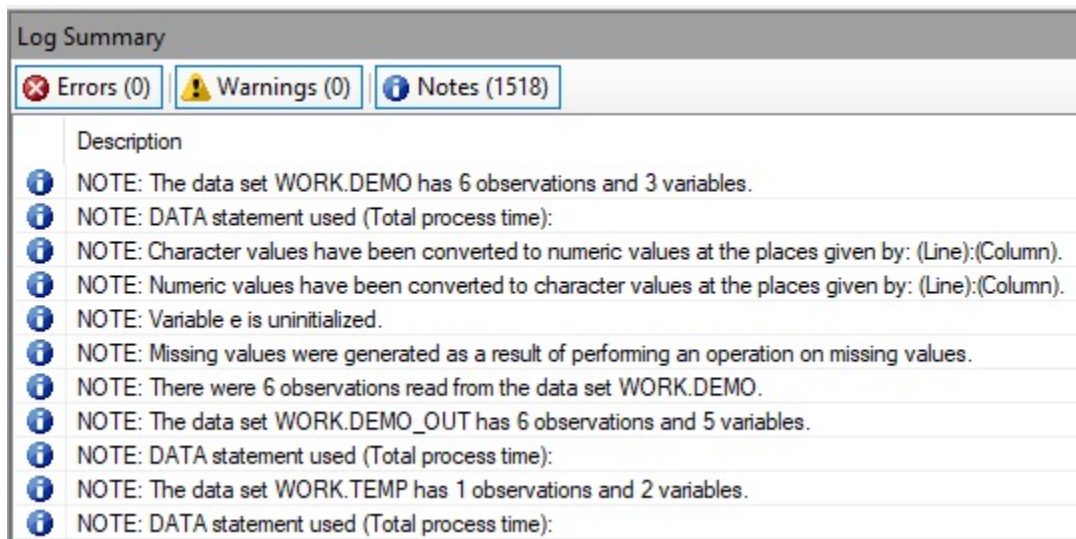
Paper SS01

A Simple Way to Improve the Efficiency of Log Checking in SAS Enterprise Guide

04May2022, Danny Hsu, Seagen, Bothell, WA, USA

Introduction:

- SAS lesson 101: To check the log!
- SAS Enterprise Guide 6.1 and above provides “Log Summary” window to category “Errors”, “Warnings”, and “Notes”



The screenshot shows the 'Log Summary' window in SAS Enterprise Guide. It has three tabs: 'Errors (0)', 'Warnings (0)', and 'Notes (1518)'. The 'Notes' tab is selected, displaying a list of 1518 notes. The first few notes are visible in the table below.

	Description
	NOTE: The data set WORK.DEMO has 6 observations and 3 variables.
	NOTE: DATA statement used (Total process time):
	NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).
	NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).
	NOTE: Variable e is uninitialized.
	NOTE: Missing values were generated as a result of performing an operation on missing values.
	NOTE: There were 6 observations read from the data set WORK.DEMO.
	NOTE: The data set WORK.DEMO_OUT has 6 observations and 5 variables.
	NOTE: DATA statement used (Total process time):
	NOTE: The data set WORK.TEMP has 1 observations and 2 variables.
	NOTE: DATA statement used (Total process time):

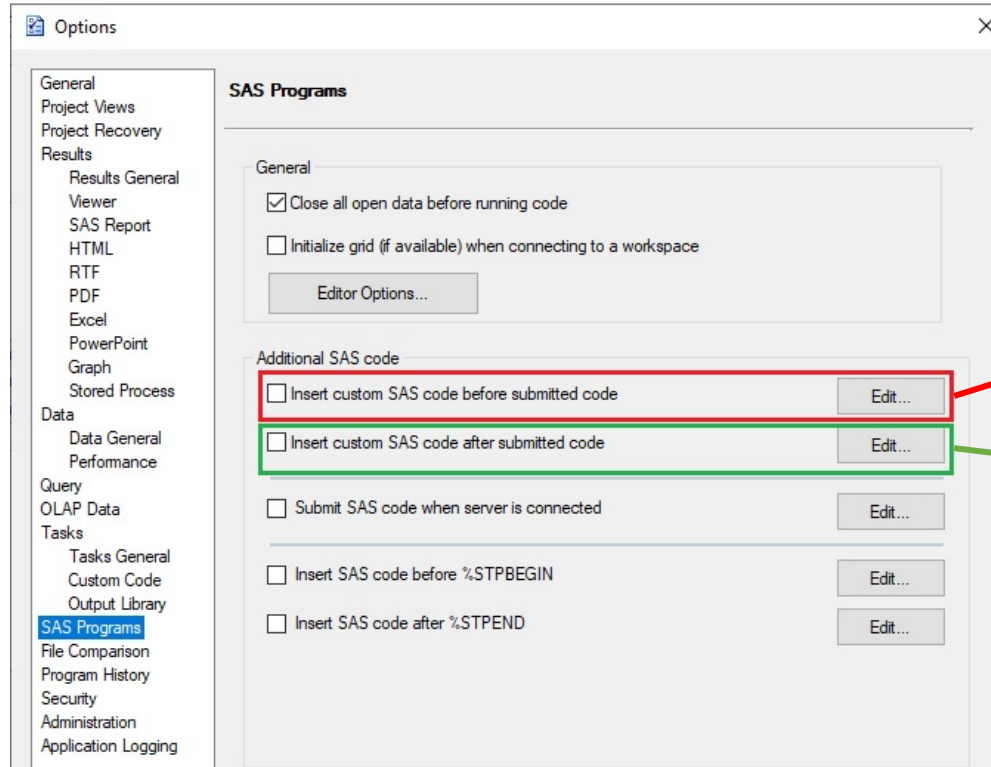
Introduction:

- Some “Note” messages deserve our attention.
e.g., “NOTE: Missing values were...”, “NOTE: Variable X is uninitialized...”

Log Summary	
 Errors (0)  Warnings (0)  Notes (1518)	
	Description
	NOTE: The data set WORK.DEMO has 6 observations and 3 variables.
	NOTE: DATA statement used (Total process time):
	NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).
	NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).
	NOTE: Variable e is uninitialized.
	NOTE: Missing values were generated as a result of performing an operation on missing values.
	NOTE: There were 6 observations read from the data set WORK.DEMO.
	NOTE: The data set WORK.DEMO_OUT has 6 observations and 5 variables.
	NOTE: DATA statement used (Total process time):
	NOTE: The data set WORK.TEMP has 1 observations and 2 variables.
	NOTE: DATA statement used (Total process time):

- A realtime checklog tool could be beneficial

SAS EG: Tools → Options → SAS Programs



Attach code:

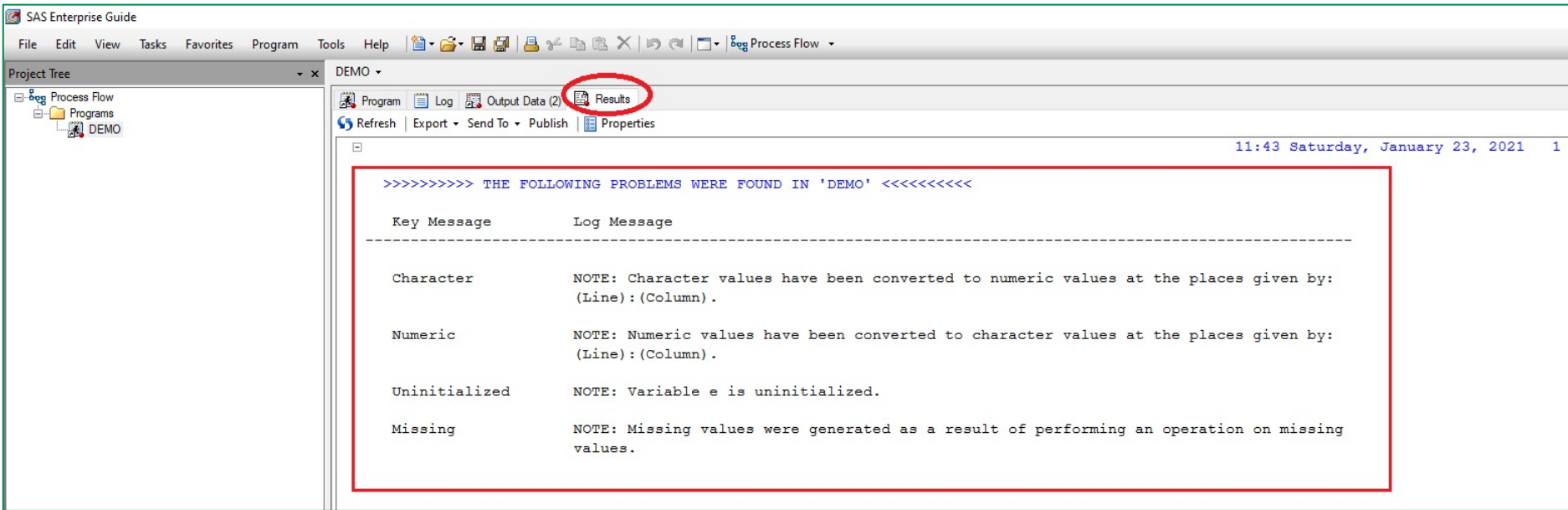


before.txt



after.txt

SAS EG Checklog: Print Log Summary in Results Tab



The screenshot displays the SAS Enterprise Guide (EG) interface. The top menu bar includes File, Edit, View, Tasks, Favorites, Program, Tools, and Help. Below the menu is a toolbar with various icons. The Project Tree on the left shows a hierarchy: Process Flow > Programs > DEMO. The main window has a tab bar with 'Program', 'Log', 'Output Data (2)', and 'Results'. The 'Results' tab is selected and circled in red. Below the tab bar is a toolbar with 'Refresh', 'Export', 'Send To', 'Publish', and 'Properties'. The main content area shows a log summary for the 'DEMO' program, dated 11:43 Saturday, January 23, 2021. The summary is enclosed in a red rectangular box and contains the following text:

```
>>>>>>>> THE FOLLOWING PROBLEMS WERE FOUND IN 'DEMO' <<<<<<<<<
```

Key Message	Log Message
Character	NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).
Numeric	NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).
Uninitialized	NOTE: Variable e is uninitialized.
Missing	NOTE: Missing values were generated as a result of performing an operation on missing values.

SAS EG Checklog: Summary

- One-time setup in SAS EG
- The criteria of log message selection could be customized
- Realtime log summary – even check the log of just one DATA or PROC step
- This tool does not modify program code and log

