What's New in Enterprise 7.1.3

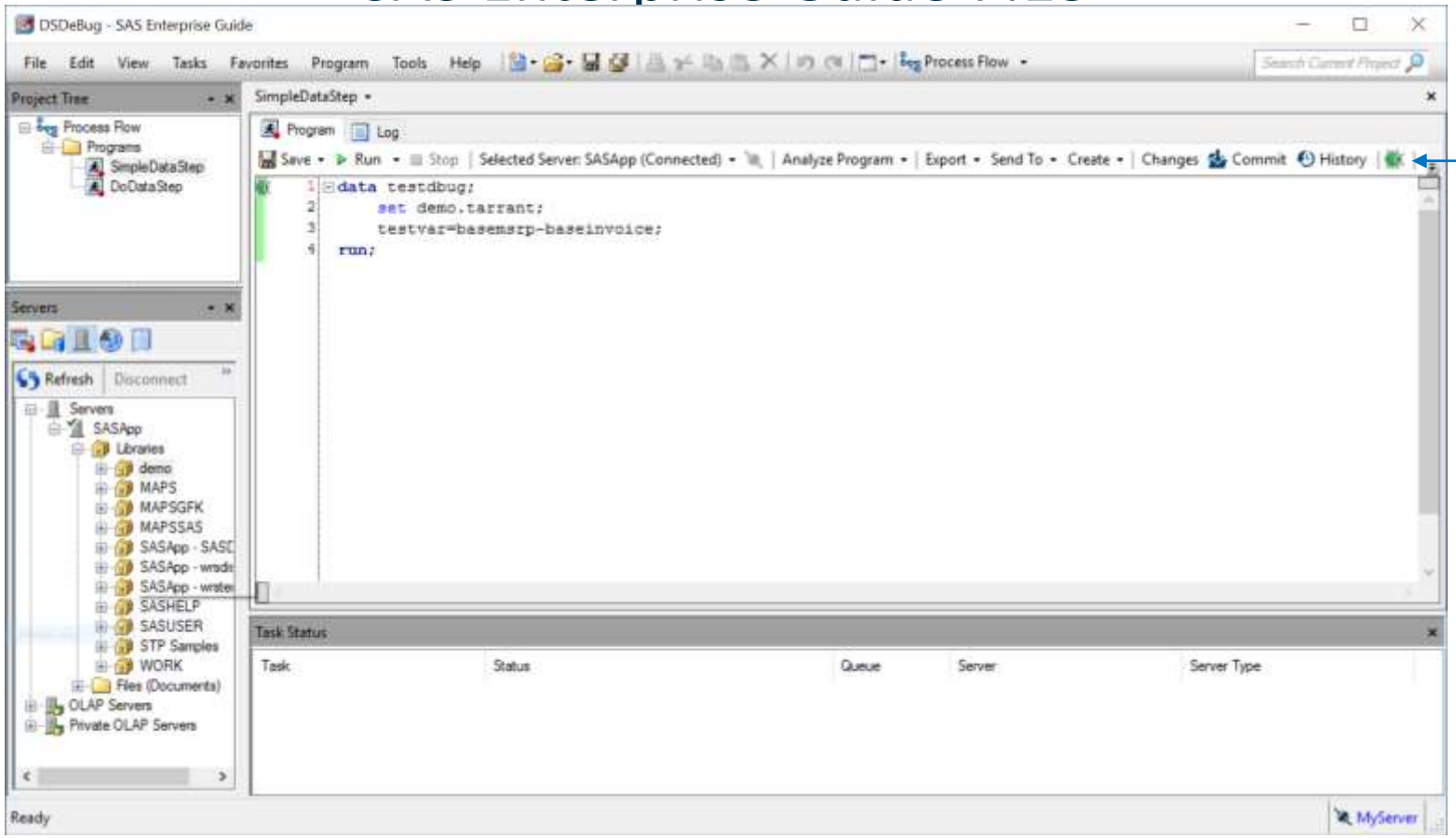
Jeff Simpson

Sr. Systems Engineer

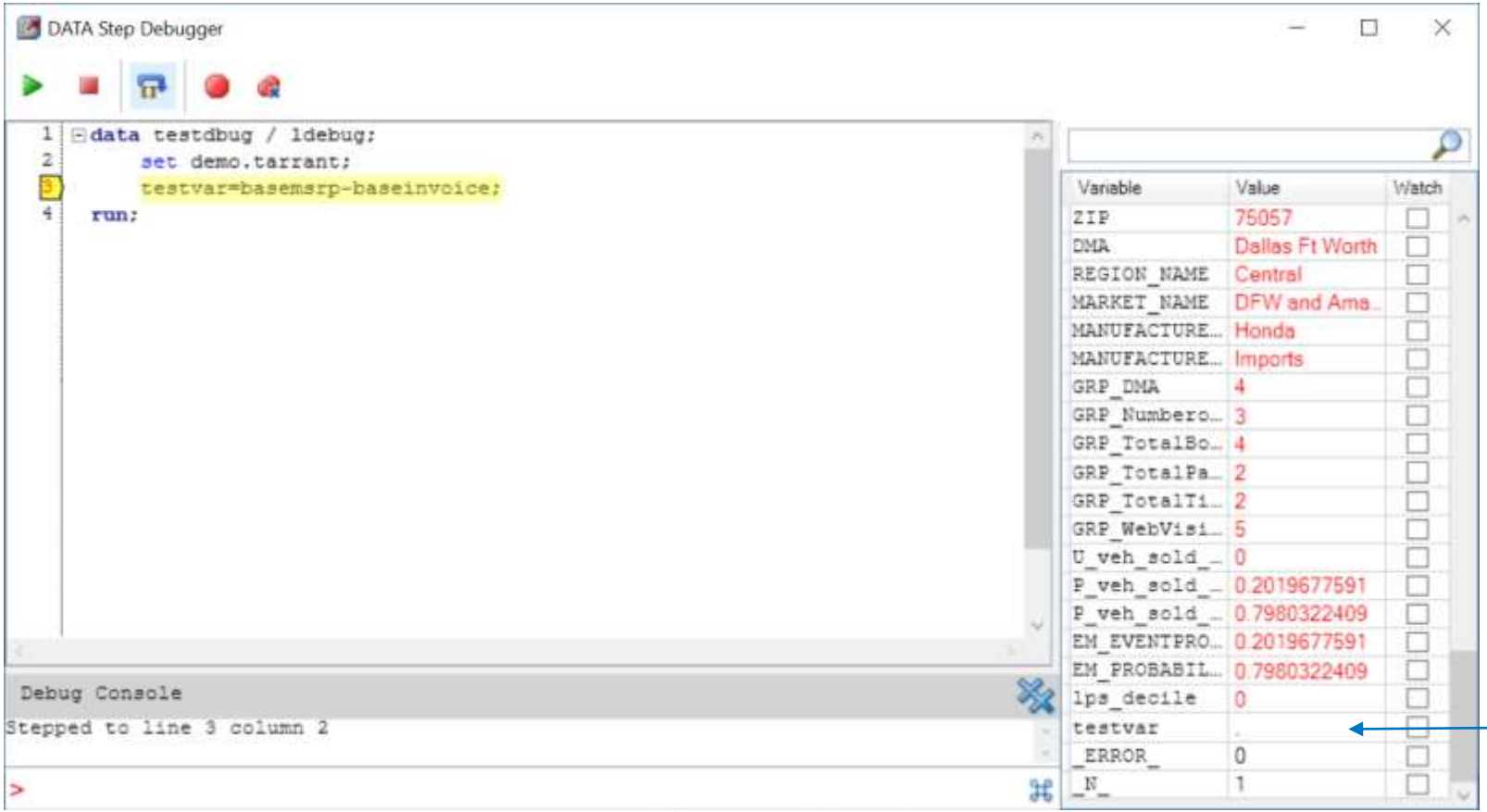
SAS Enterprise Guide 7.13

- The new DATA Step Debugger is a tool that enables you to find logic errors in a DATA step program. With the DATA Step Debugger, you can watch the variable values in a program change as the program runs. You can execute the program line by line, and you can also set specific breakpoints in the program

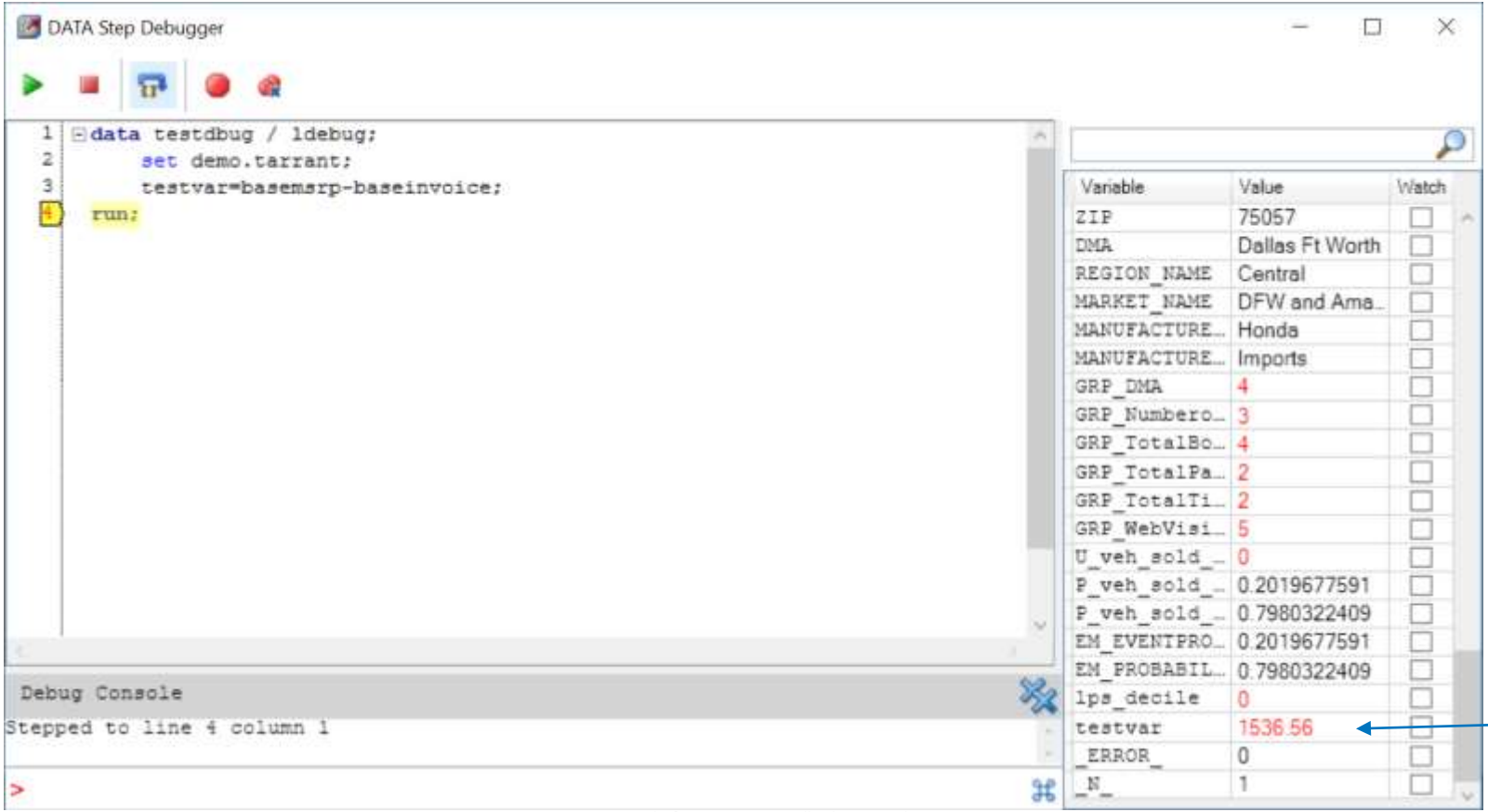
SAS Enterprise Guide 7.13

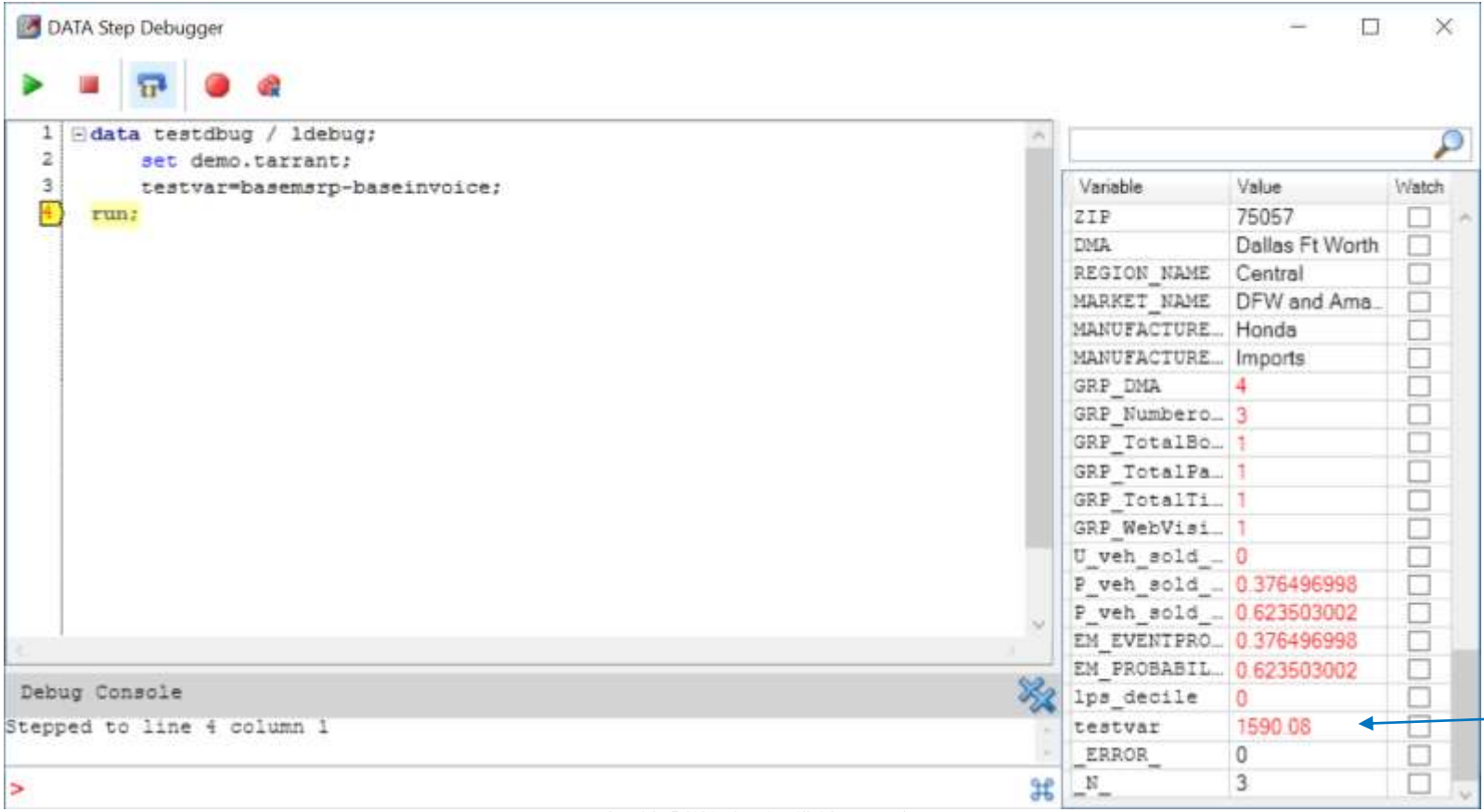


SAS Enterprise Guide 7.13

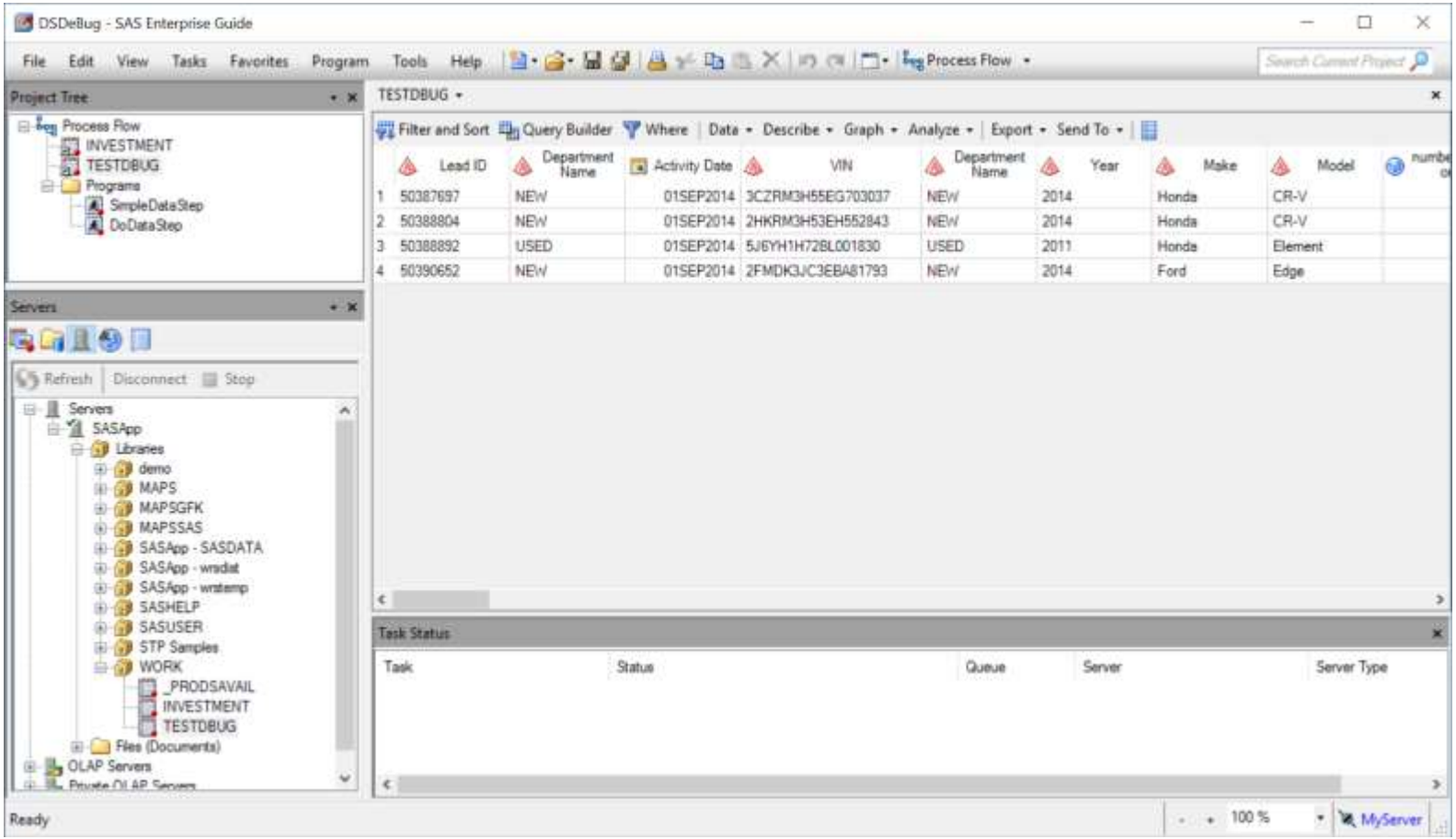


SAS Enterprise Guide 7.13

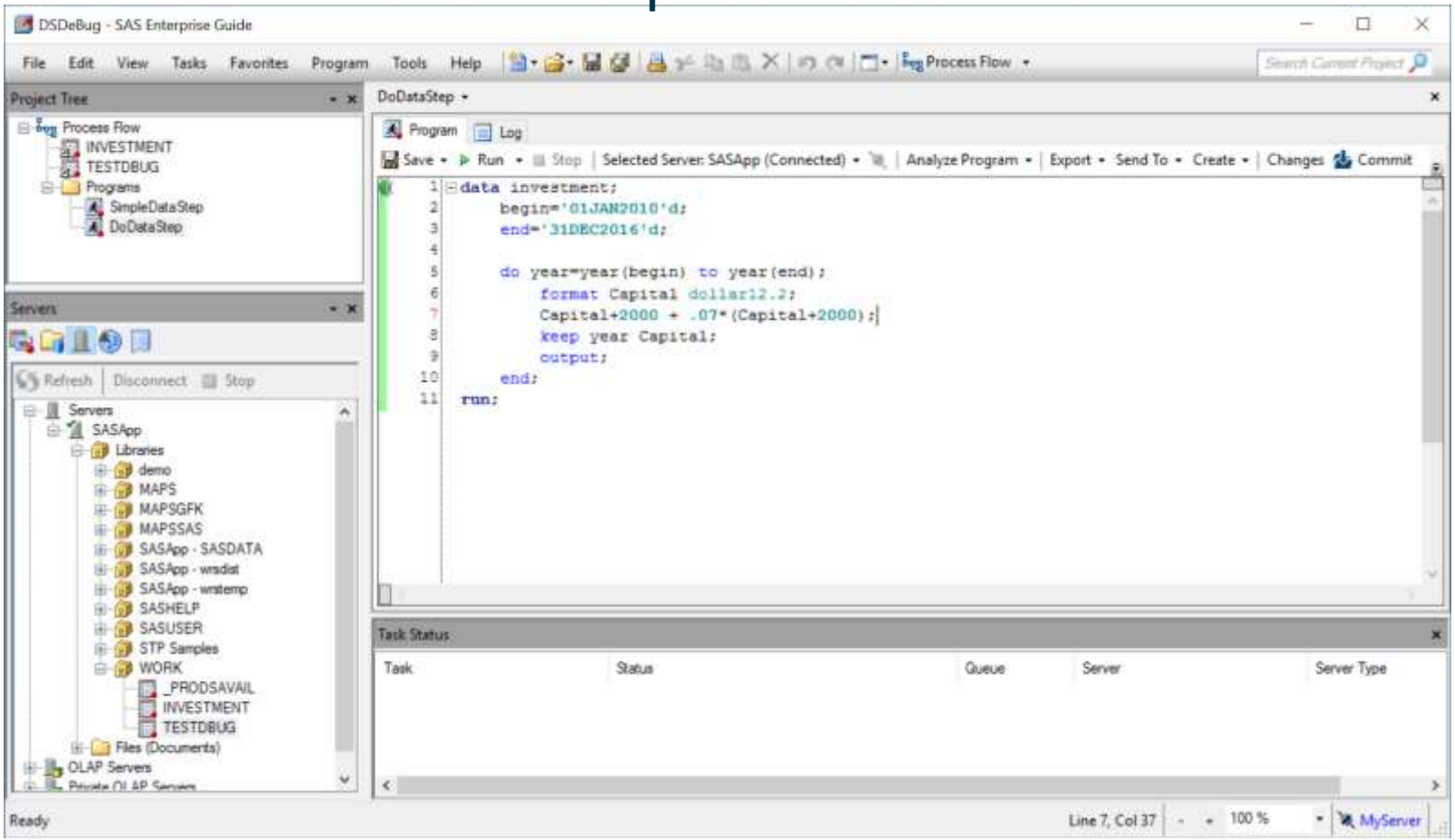




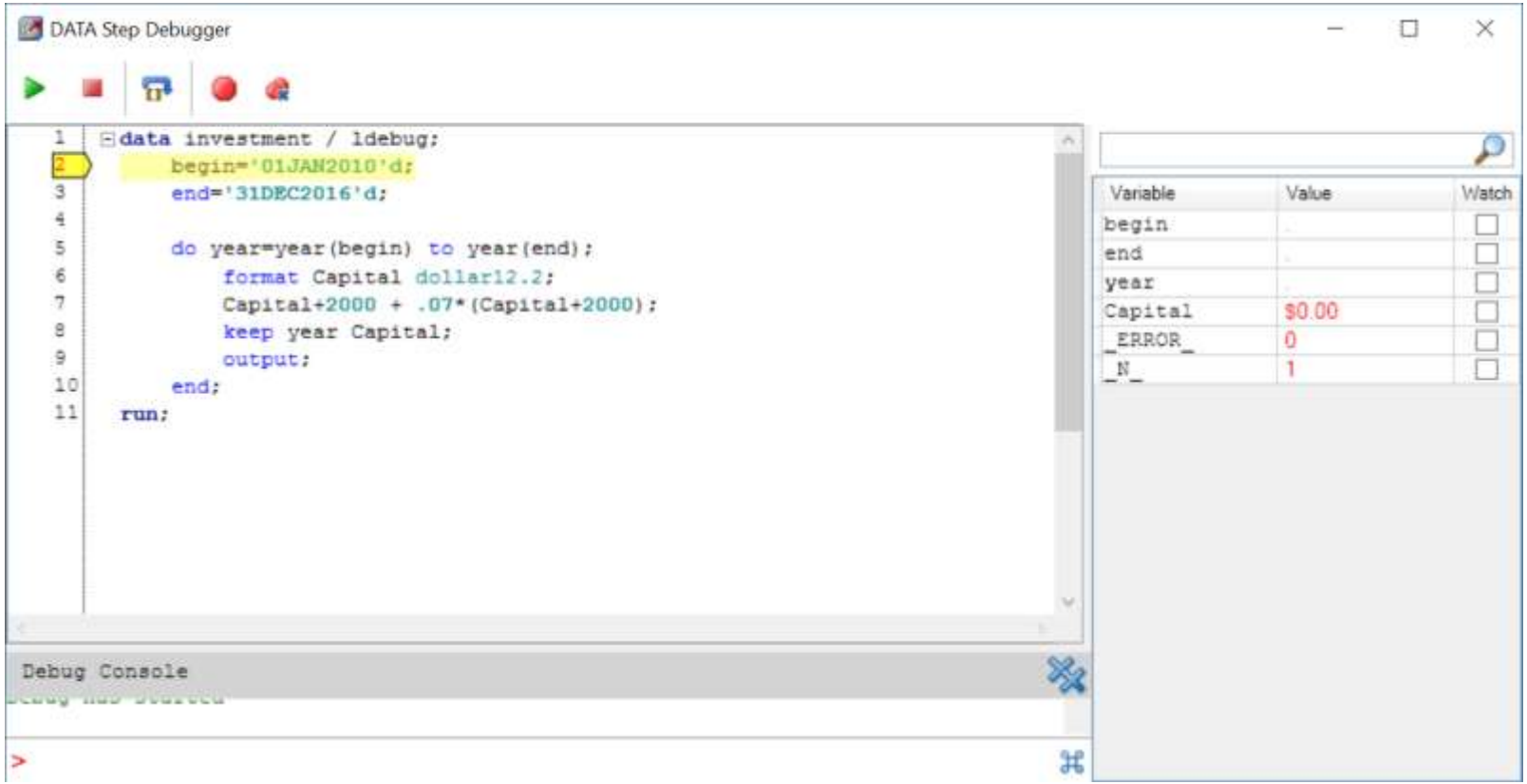
SAS Enterprise Guide 7.13



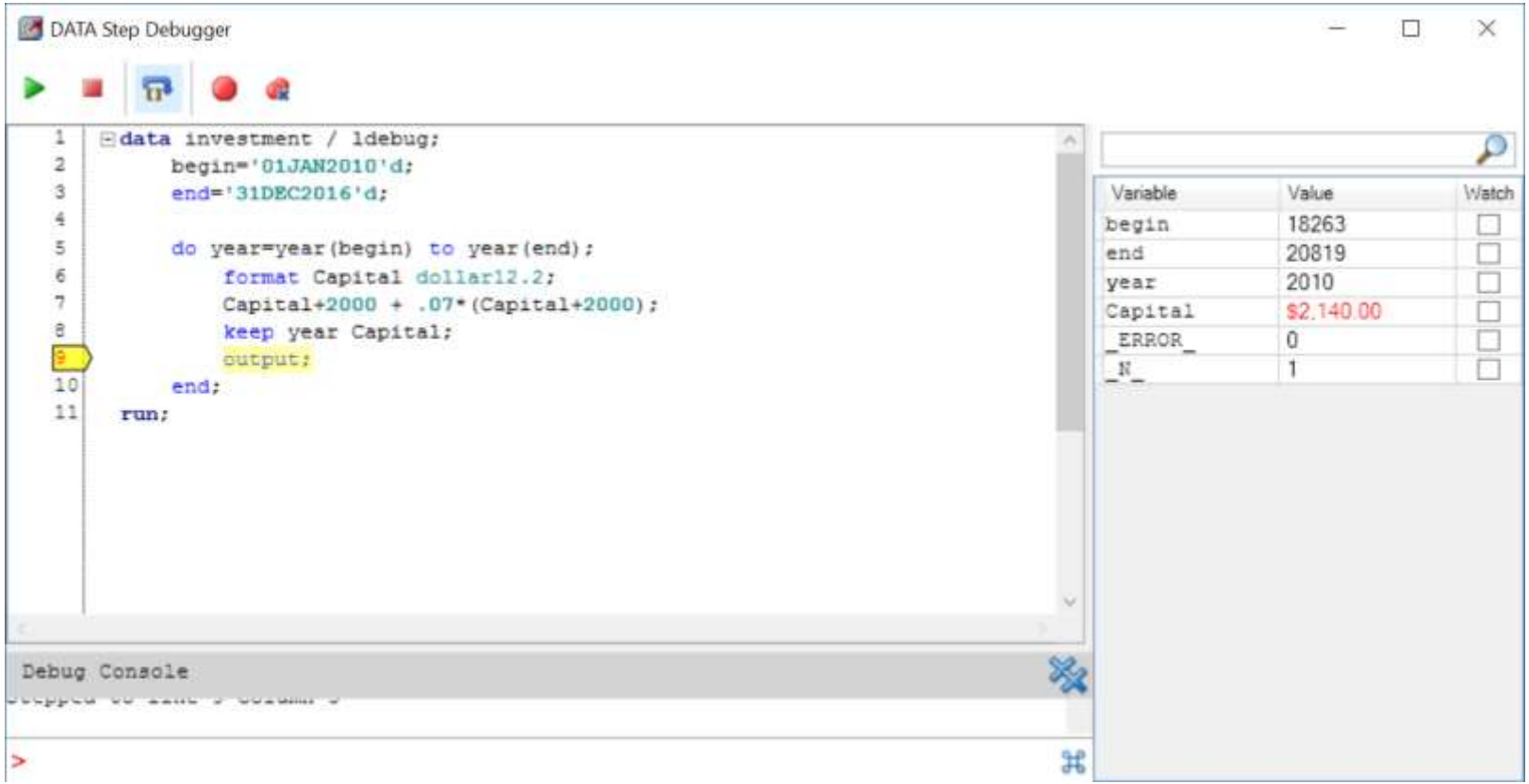
SAS Enterprise Guide 7.13



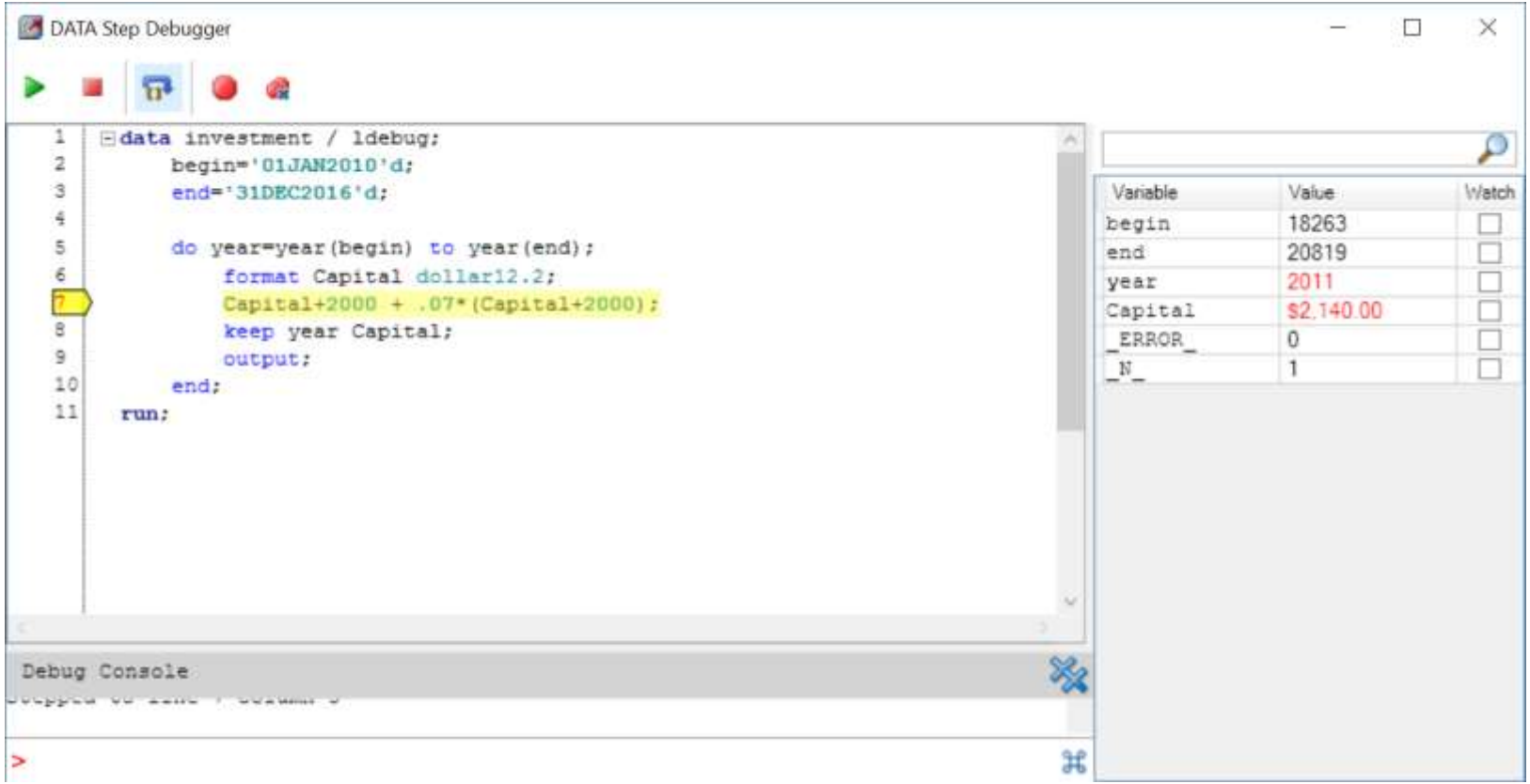
SAS Enterprise Guide 7.13



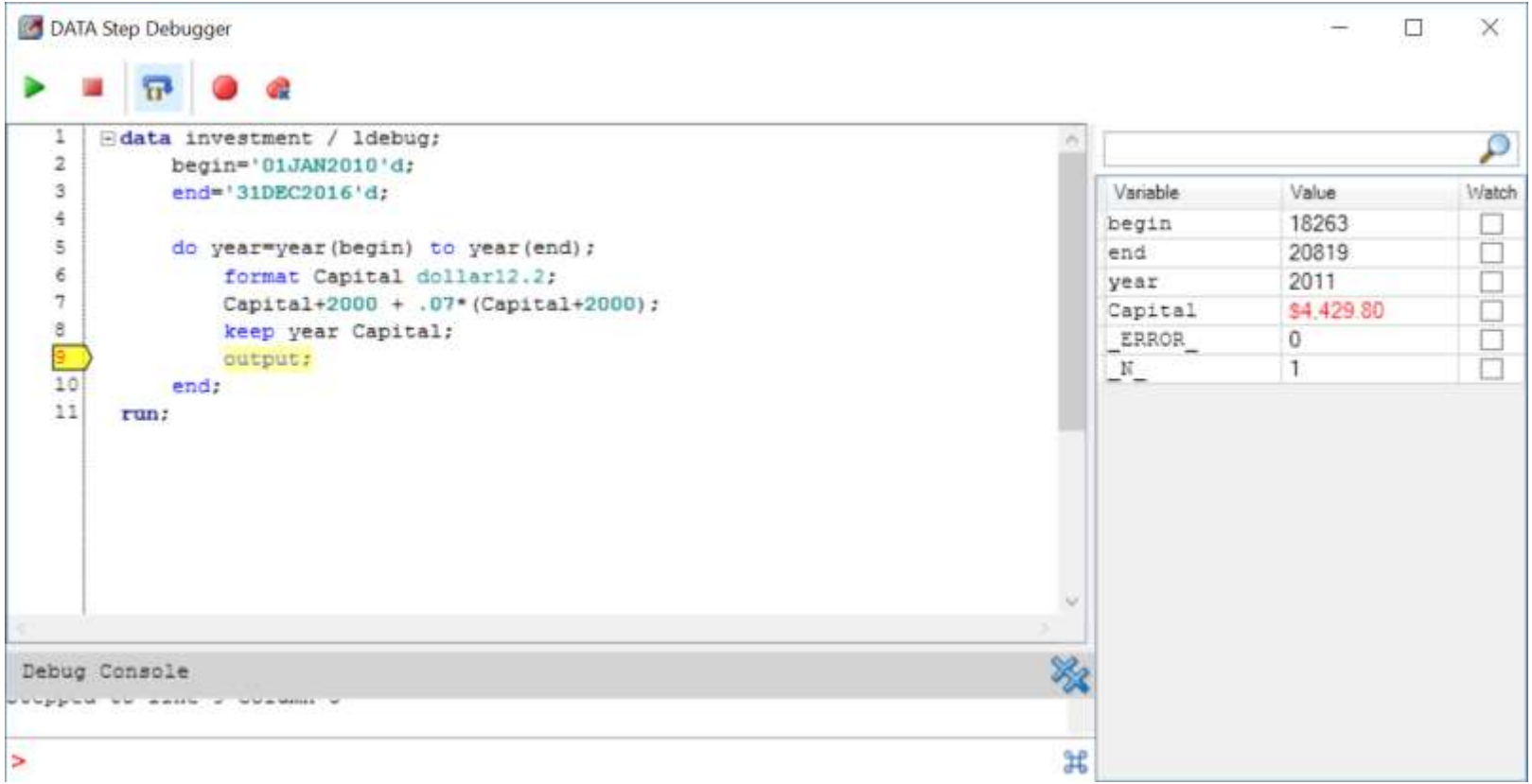
SAS Enterprise Guide 7.13



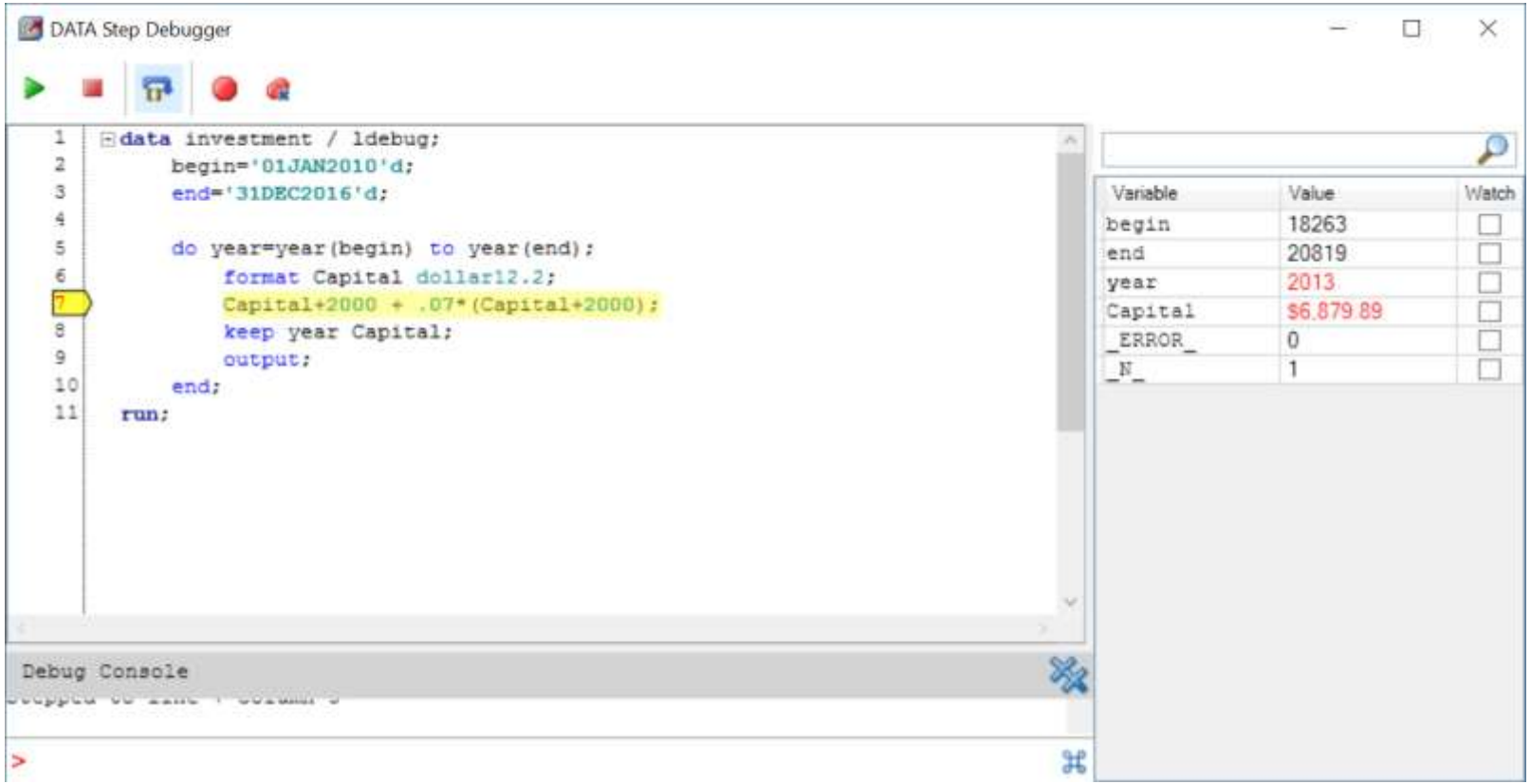
SAS Enterprise Guide 7.13



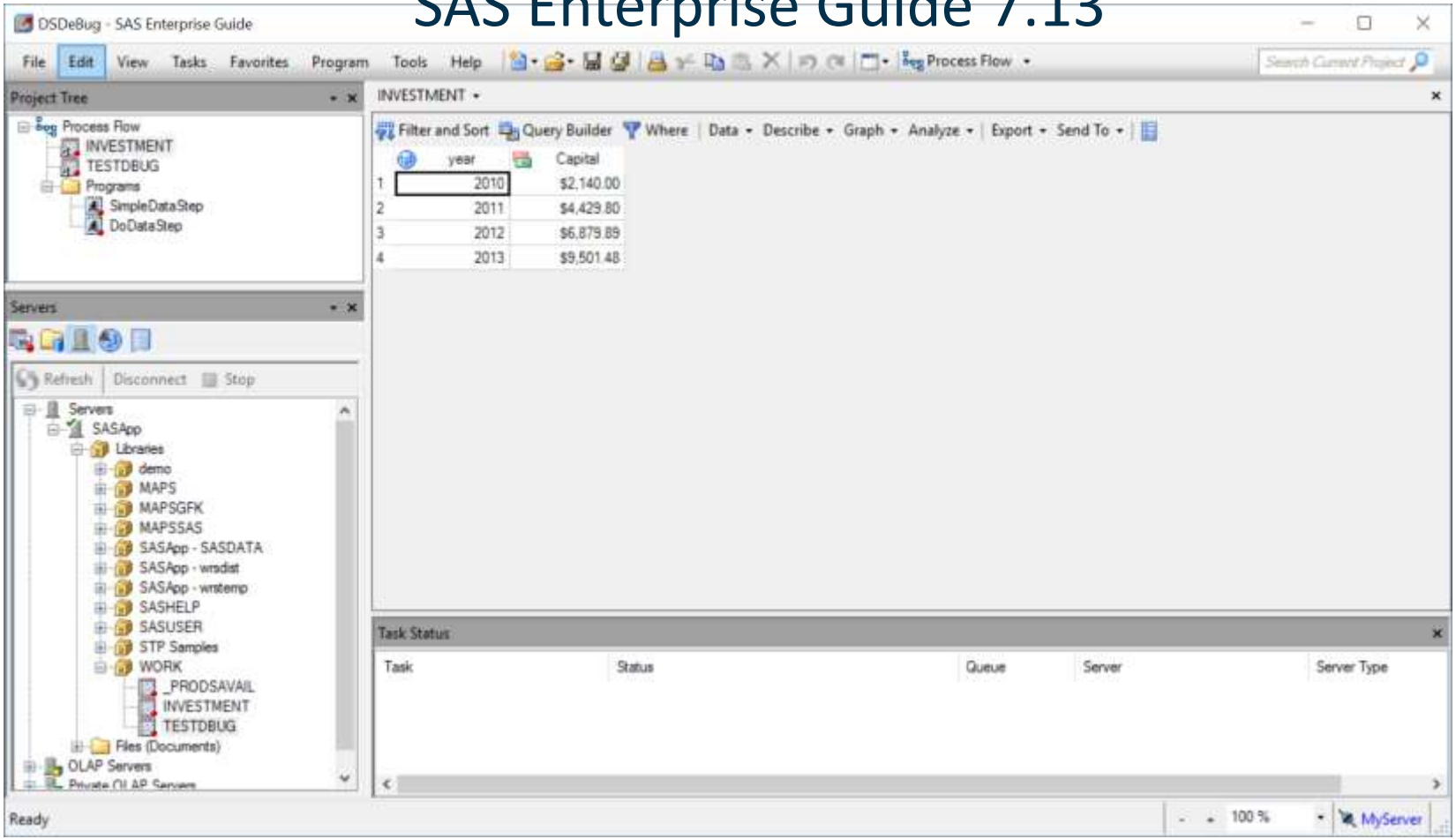
SAS Enterprise Guide 7.13



SAS Enterprise Guide 7.13



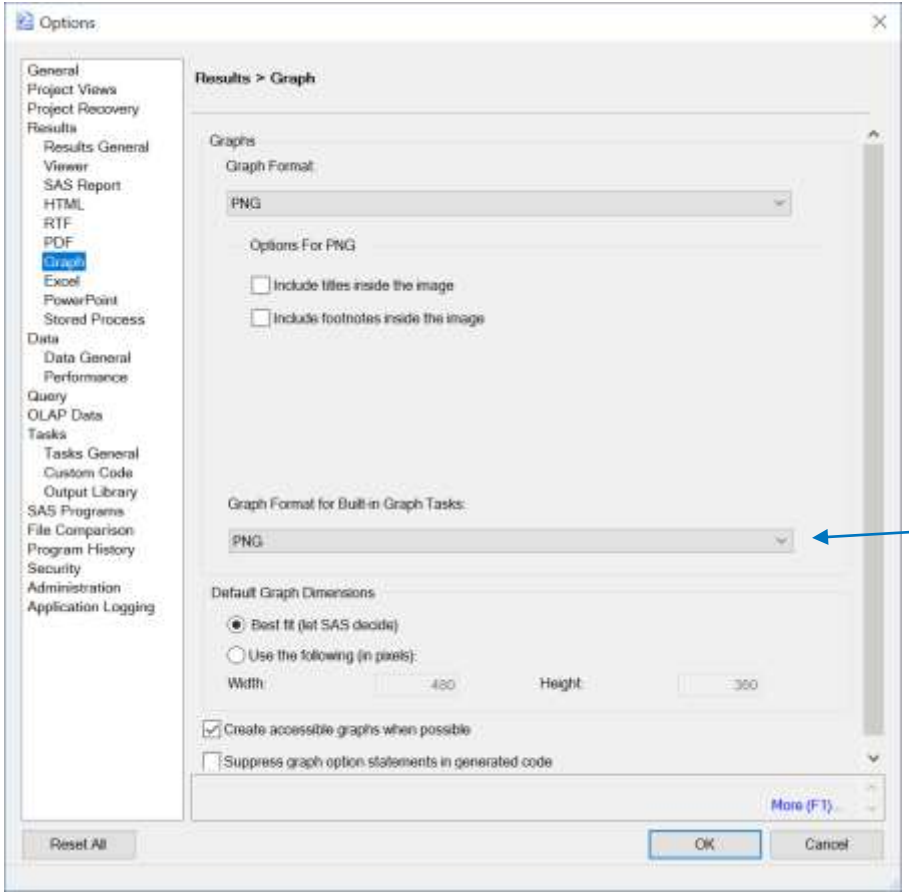
SAS Enterprise Guide 7.13



SAS Enterprise Guide 7.13

- Starting with this release, the default graph format is PNG. Use the new **Graph Format** for Built-in Graph Tasks option to set the default format for the graph tasks, such as Bar Chart, Line Chart, and Pie Chart

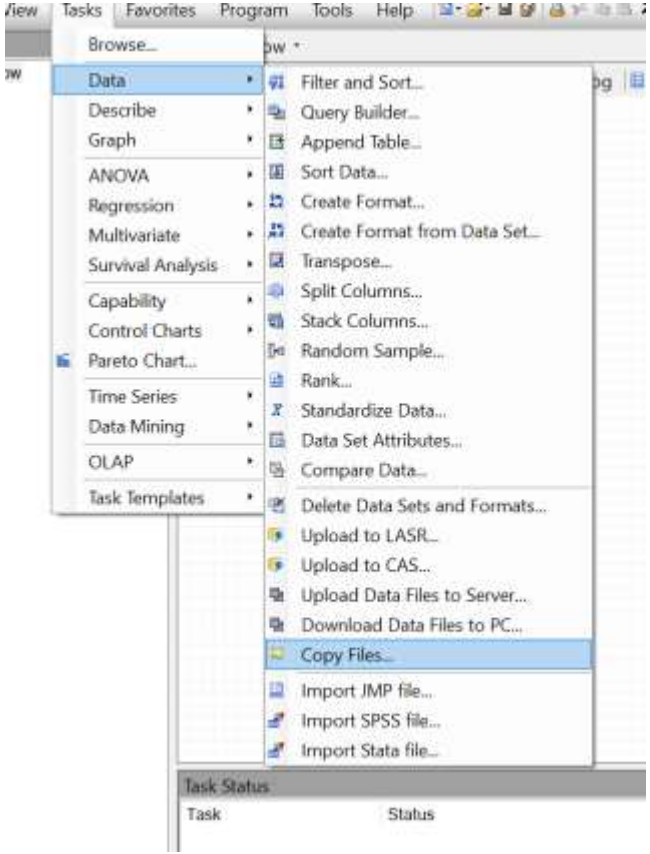
SAS Enterprise Guide 7.13



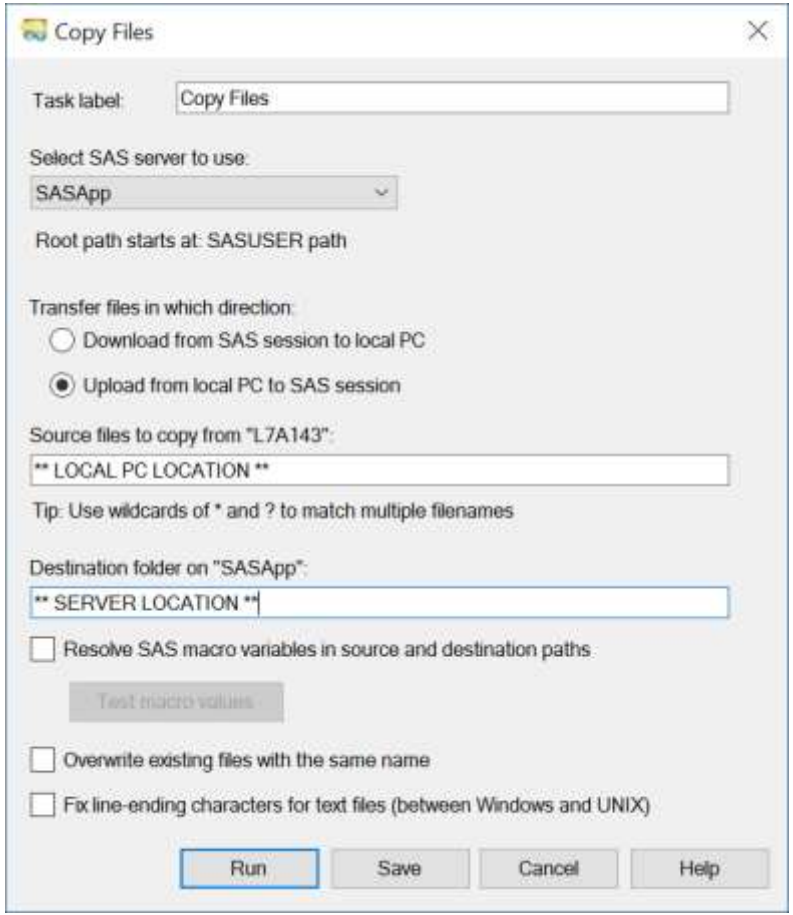
SAS Enterprise Guide 7.13

- You can now transfer files from your local computer to a SAS server or from a SAS server to your local computer by using the Copy Files task. The Copy Files task works in a similar way to an FTP application. However, this task relies on the SAS protocols to complete the file transfers and does not require an FTP server.

SAS Enterprise Guide 7.13



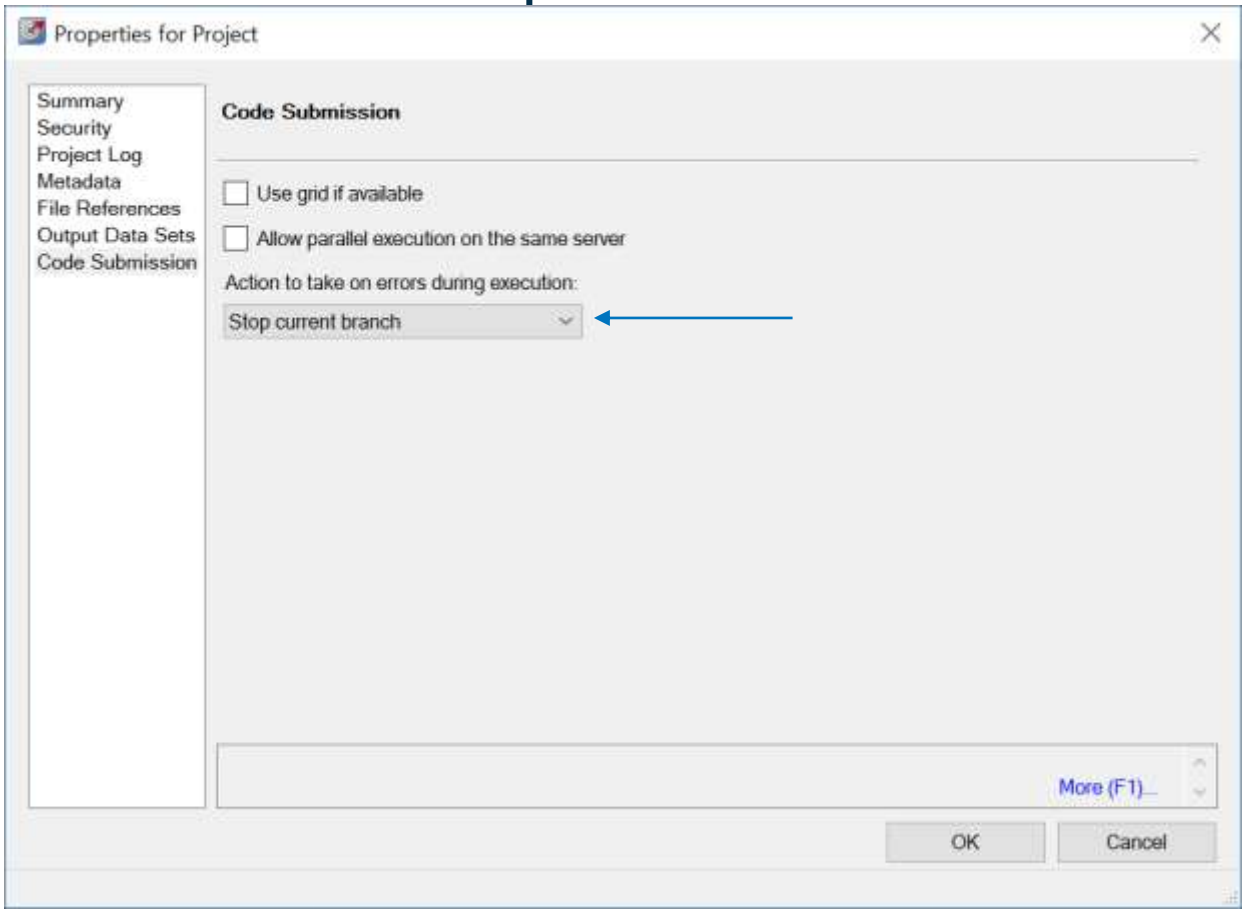
SAS Enterprise Guide 7.13



SAS Enterprise Guide 7.13

- You can specify whether to continue executing a process flow if an error is encountered

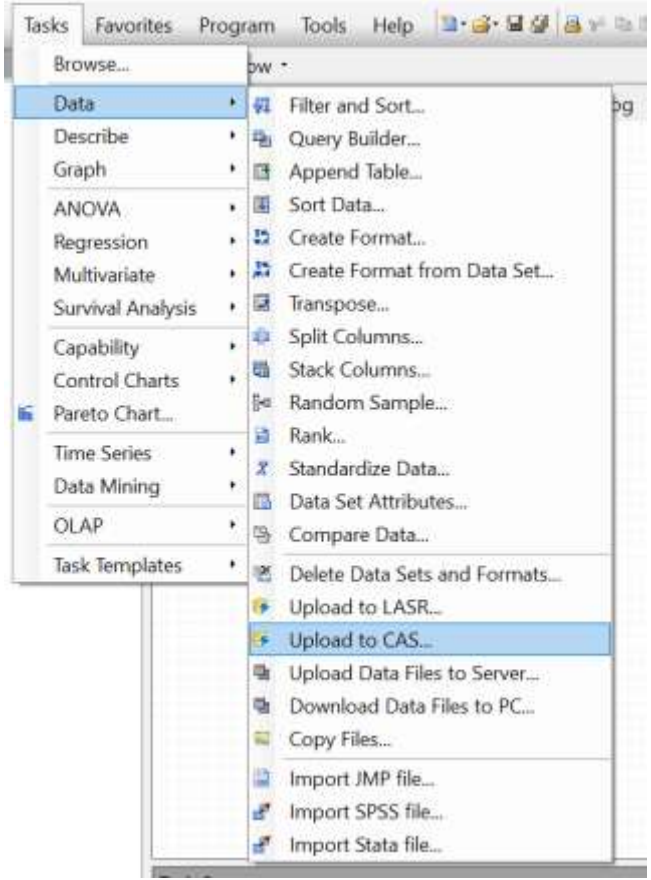
SAS Enterprise Guide 7.13



SAS Enterprise Guide 7.13

- You can upload your existing SAS 9.4 data to SAS Cloud Analytic Services (CAS) by using the new Upload to CAS task

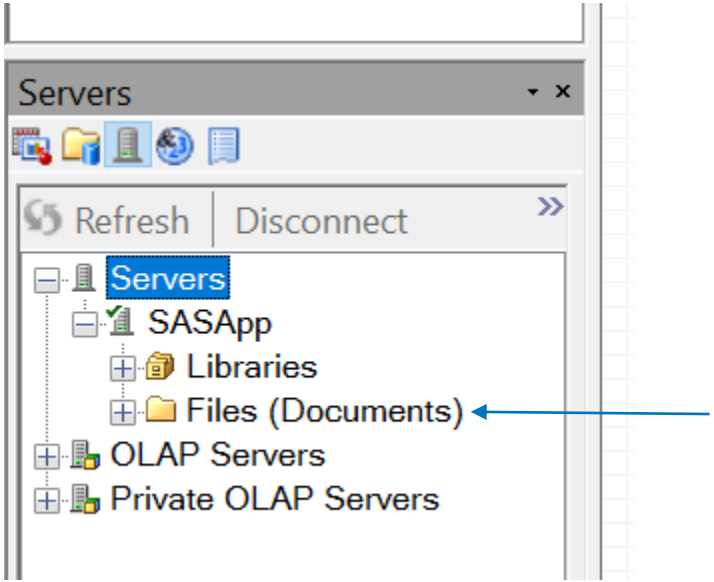
SAS Enterprise Guide 7.13



SAS Enterprise Guide 7.13

- Server file navigation now defaults to your Documents folder on Windows servers. In addition, the file navigation now contains folder shortcuts

SAS Enterprise Guide 7.13



SAS® Enterprise Guide™

Resources

- Main Enterprise Guide documentation page: http://support.sas.com/documentation/onlinedoc/guide/index.html
- Enterprise Guide tutorial: http://support.sas.com/documentation/onlinedoc/guide/tut71/en/

Copy SAS variable names to the clipboard in SAS Enterprise Guide

Chris Hemedinger | OCTOBER 28, 2015

1850 5

I recently met SAS user "CSC" at the Analytics 2015 conference. It might be generous to say that he's an *avid* user of SAS Enterprise Guide; it's probably more accurate to say that he's now accustomed to the tool and he's once again productive. But he still misses some features from his PC SAS days, including this one.

He wants to be able to copy just a list of SAS variables names from a SAS data set, so that he can then paste them into a SAS program (or another document). In PC SAS he had a simple GSUBMIT sequence that captured the names and "copied" them to the Windows clipboard with FILENAME CLIPBRD. That does not work in SAS Enterprise Guide, because SAS doesn't have direct access to the clipboard on your local machine.

CSC posted his question to the SAS Enterprise Guide community, and Tom suggested that a custom task might help. Good answer, but there it sat until CSC and I met in person this week in Las Vegas. After a short discussion and a personal plea, I was able to create the task in about 30 minutes.

About this blog

Chris Hemedinger is the manager of SAS Online Communities. He's also co-author of the popular *SAS for Dummies* book, author of *Custom Tasks for SAS Enterprise Guide using Microsoft .NET*, and a frequent participant on the SAS® Enterprise Guide® discussion forum.

Tags

.net 64-bit automation Computer Science Education Week csedweek excel excel 2007 facebook formats gptw great places to work macro programming ODS Graphics PowerShell SAS 9.2 sas 9.3 SAS 9.4 sas administration SAS BI SAS blog

SAS® Studio: An Introduction

Jeff Simpson

Sr. Systems Engineer

Takeaways & Agenda

With this meeting we hope for you to achieve the following two takeaways:

1. Understand what SAS Studio is - when / why / how to use it

2. Witness the key capabilities of SAS Studio

SAS® Studio

SAS® Studio is a browser-based, broadly available, consistent SAS programming interface:

- Available via a browser on any device that connects to your SAS server
- Easier administration - update once and gain latest updates/versions across the tiers of your configuration

SAS® Studio When is SAS Studio used? Why and by whom?

When – you need to crunch data; turn raw data into actionable intelligence, develop reports and analytics

Why – enable knowledge workers to work anywhere with a broadly available, consistent SAS programmer interface

Who – programmers, analysts, statisticians, new and existing SAS users

How is SAS Studio licensed?

- All SAS customers as of 9.4M2 – if you have Base SAS, you have SAS Studio
- You don't necessarily need a mid-tier or SAS Integration Technologies
- SAS® Studio is part of the *University Edition* of SAS®

How is SAS Studio configured?

Single-User / PC

Multi-User / Server*

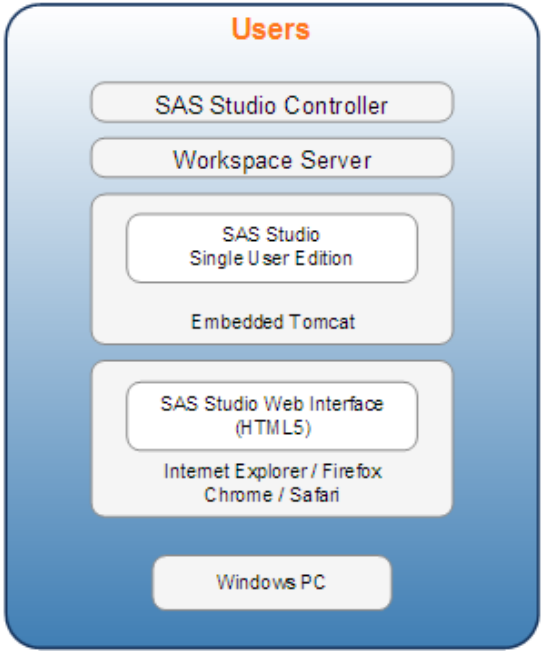
Multi-User / Enterprise*

* can be a hosted server in a cloud environment or in your own environment

SAS® Studio

Single-user / PC configuration

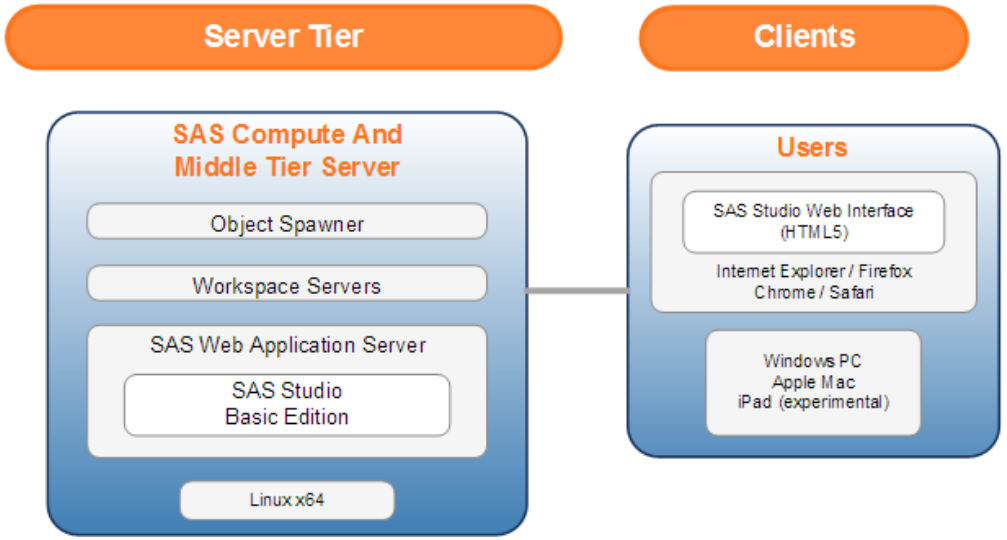
- Base SAS on a Windows PC or SAS University Edition
- Invoke SAS Studio via web browser on the same machine where Base SAS is installed
- Local permissions and policies determine which data & files you can access



SAS® Studio

Multi-user / Server configuration

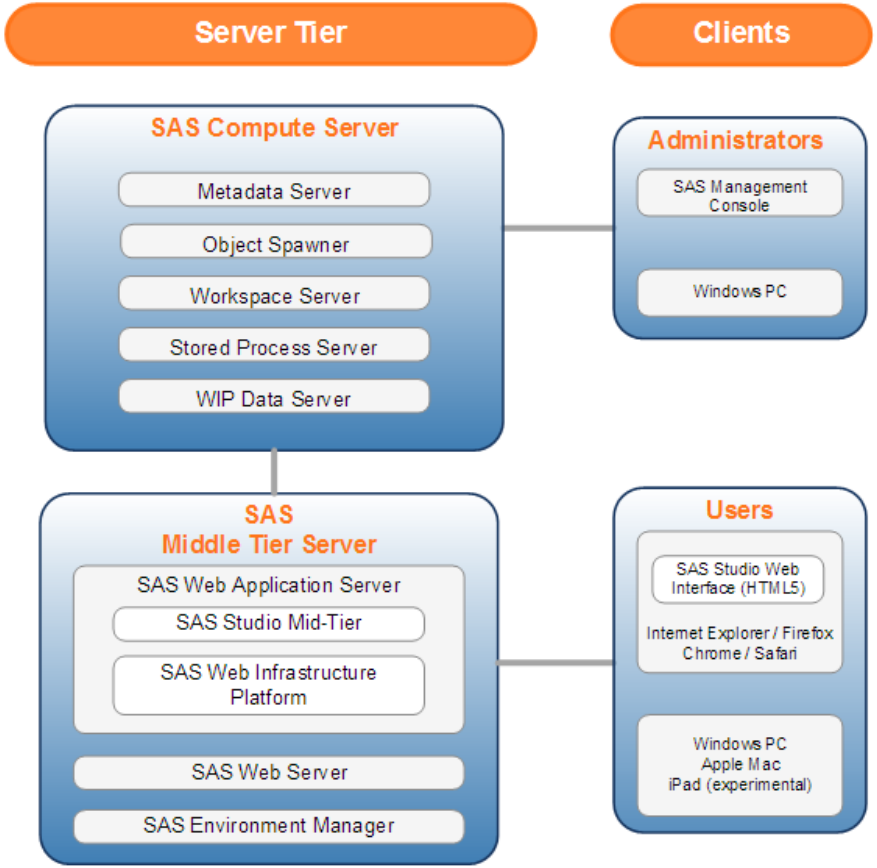
- Base SAS on a server
- Invoke SAS Studio from web browser on any machine connected to SAS server
- You must have credentials to log into the SAS server machine
- Server permissions determine which data & files you can access



SAS® Studio

Multi-user / enterprise configuration

- Base SAS on a server
- Invoke SAS Studio from web browser on any machine connected to SAS server
- You must have credentials to log into the SAS server machine
- Server permissions and SAS Metadata Server determine which data & files you can access



SAS® Studio

How does SAS Studio operate?

All operations are conducted in terms of the *workspace server*

- Web browser accesses your programs, data, libraries
- When you run a program or task, SAS Studio connects to SAS to process the [generated] SAS code
- After the code is processed, the log, [generated] code, and results are returned to SAS Studio

SAS® Studio

Supported browsers

SAS Studio is an HTML5 application that requires no browser plug-ins

- Microsoft Internet Explorer 9, 10, 11
- Mozilla Firefox 21+
- Google Chrome 27+
- Apple Safari 6.0+ (on Apple OS X)

http://www.sas.com/en_us/software/foundation/studio.html#m=system-requirements

Programming Interface

SAS® Studio - Development Environment

SAS® Studio

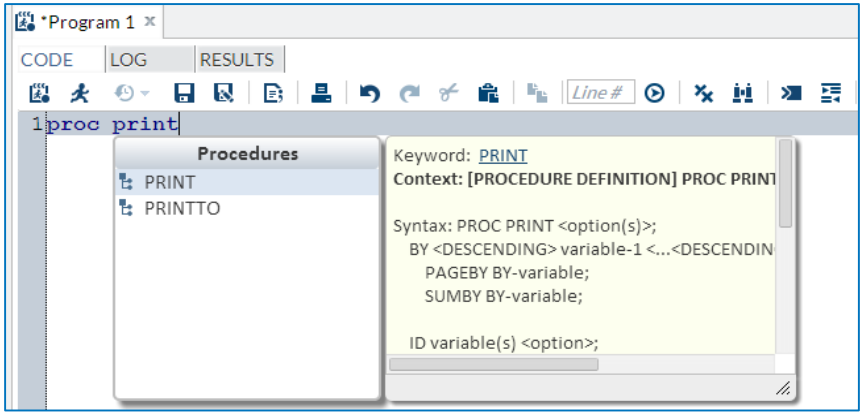
Programming interface

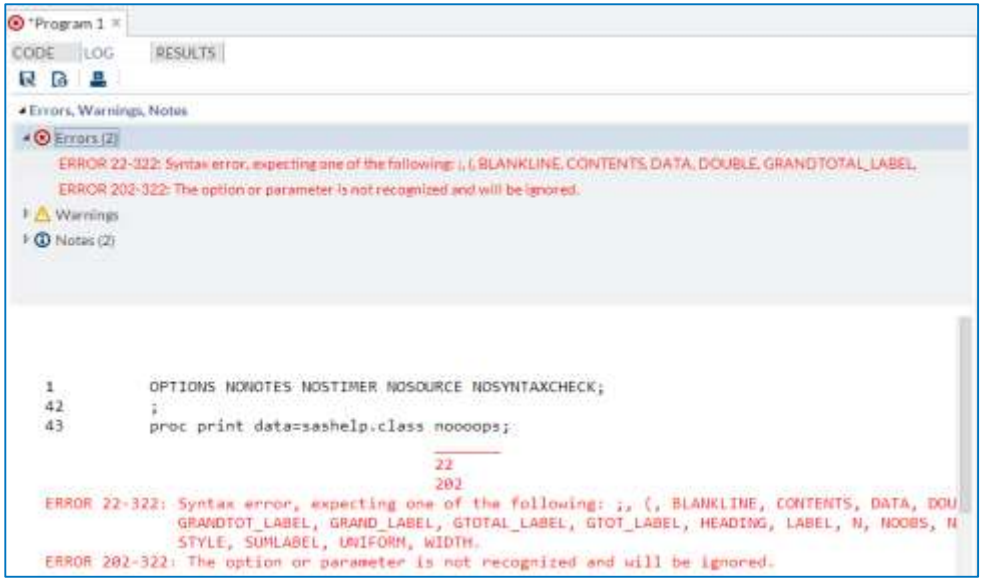
- You can access your programs, data files, and libraries
- When you run a program or task, SAS® Studio connects to a SAS® server in order to process the generated SAS® code
- The SAS® server can be a hosted server in a cloud environment, or it can be a server in your local environment
- After the code is processed, the program and task results are returned to SAS® Studio

SAS® Studio

Programming interface

- Color-coded editor
- Auto-complete
- Pop-up syntax help

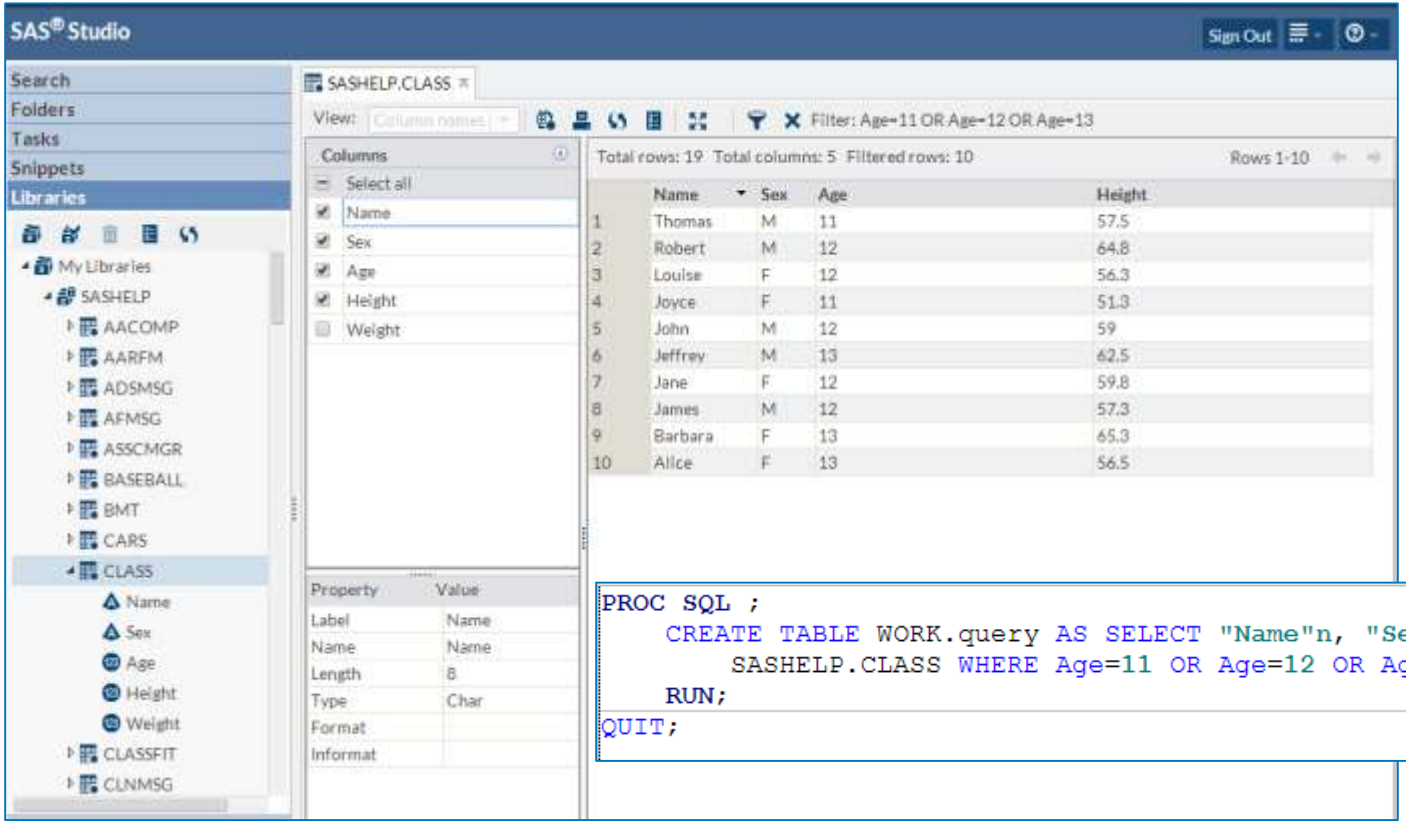




- Color-coded log navigator
- Categorized alerts:
  - Errors
  - Warnings
  - Notes
- Easily save or share logs

SAS® Studio

Table viewer

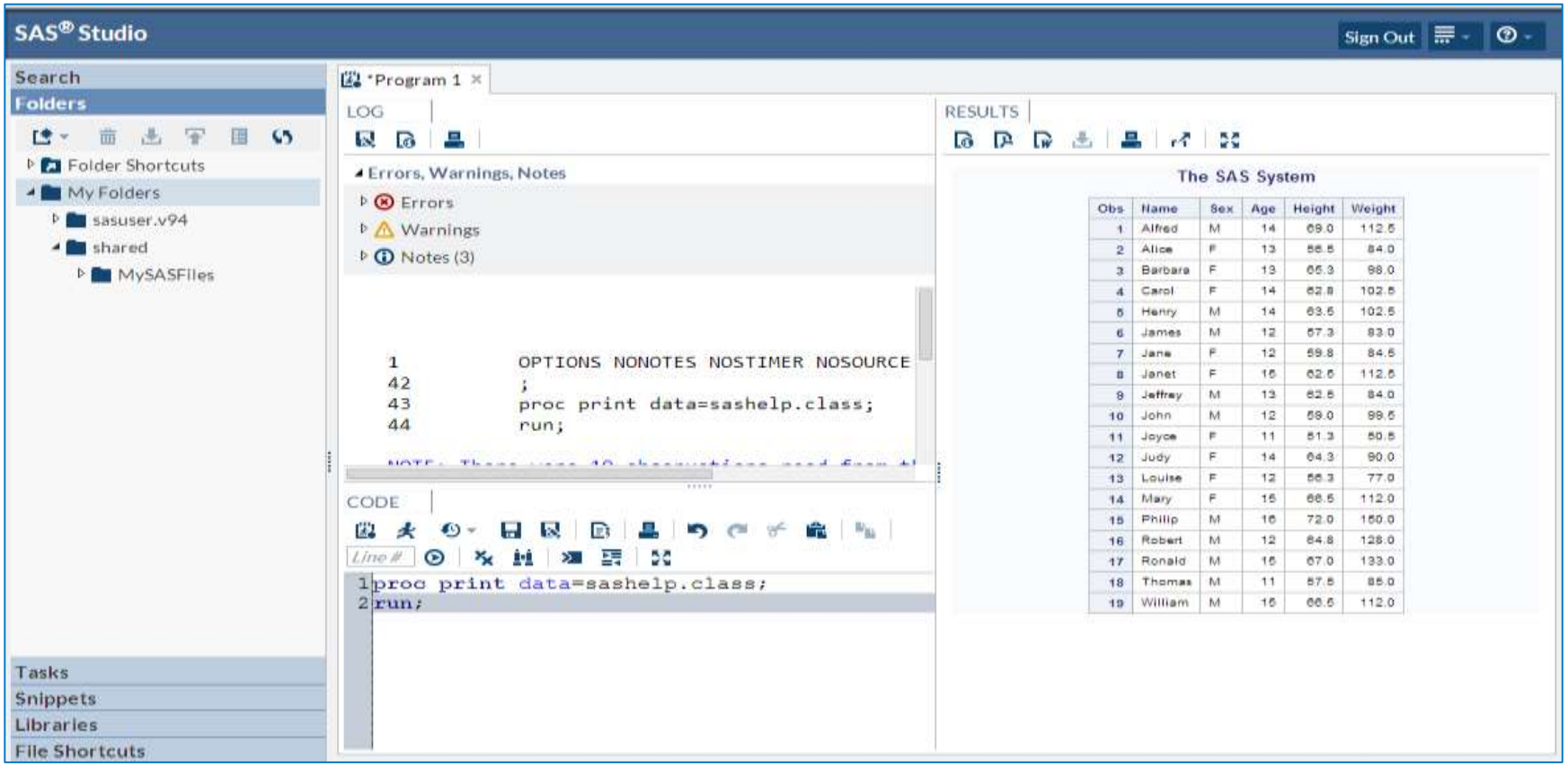


- Sort or filter a table
- View or copy the generated SQL

```
PROC SQL ;
    CREATE TABLE WORK.query AS SELECT "Name"n, "Sex"n, "Age"n, "Height"n FROM
        SASHELP.CLASS WHERE Age=11 OR Age=12 OR Age=13 ORDER BY Name DESCENDING;
    RUN;
QUIT;
```

SAS® Studio

Customizing the interface



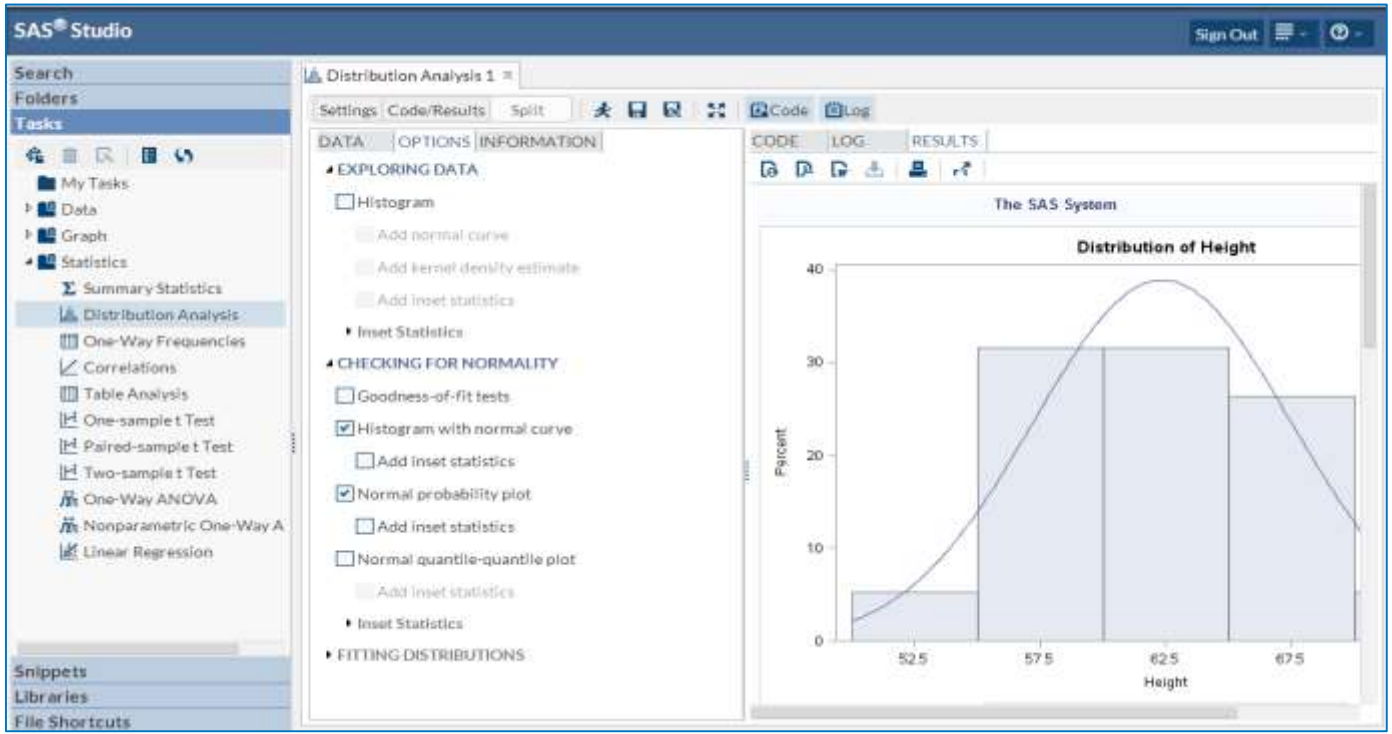
Code Snippets & Tasks

Ease of use

Tasks

Overview

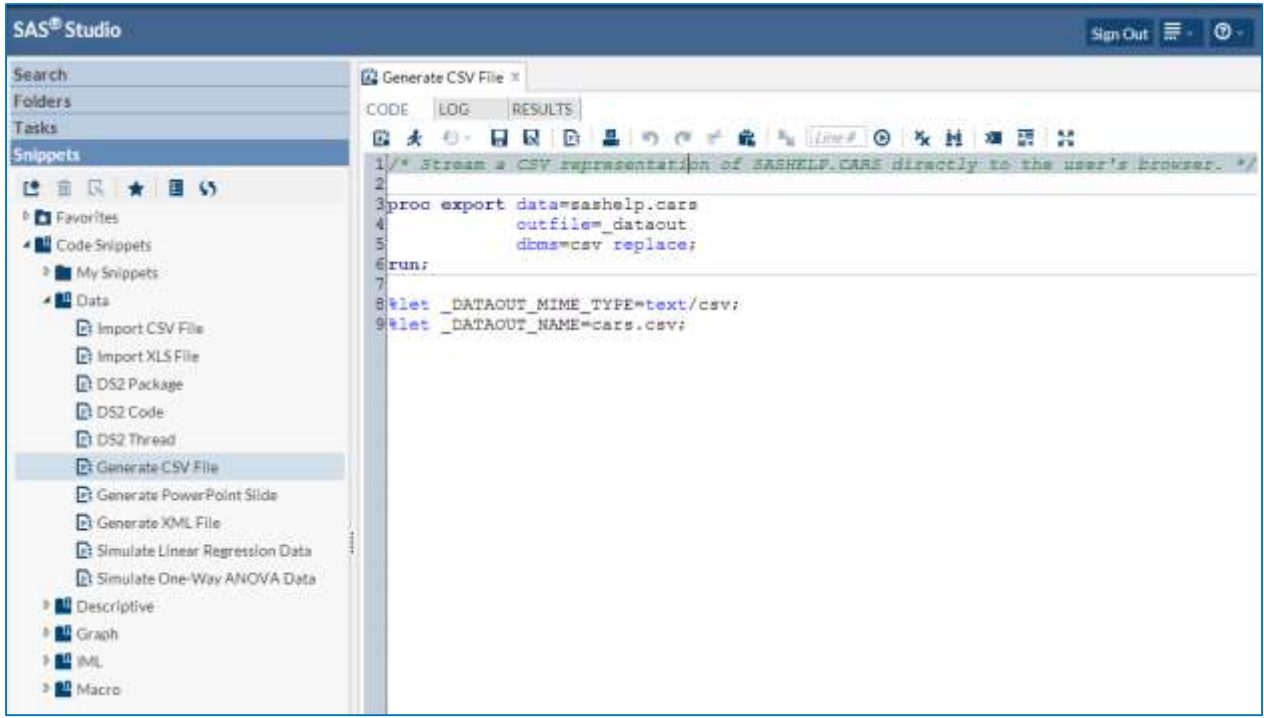
Tasks are point-and-click user interfaces which guide users through an analytical or other processes. Behind the scenes, SAS® code is generated.



Code Snippets

Overview

- Frequently used code snippets are provided in SAS® Studio
- Quickly insert SAS® Code
- Once inserted, you can modify the snippet code to meet your needs
- Easily create your own snippets
- Specify My snippets for easy access

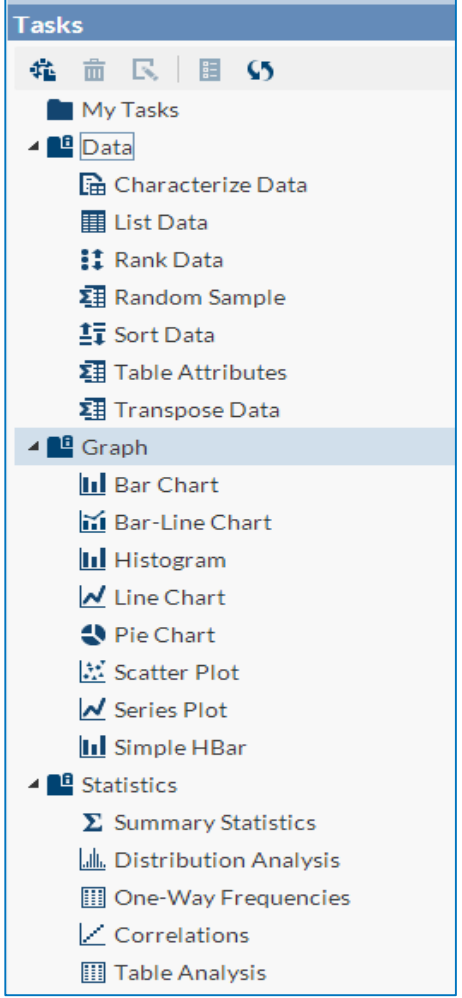


Tasks

Authoring

SAS® Studio provides a flexible task framework where both internal and external customers can create tasks

- SAS® R&D groups can add tasks
- Customers and consultants can easily create their own tasks without java coding or action-script coding
- Customers and consultants can copy delivered tasks and modify them



So what can I do?

SAS® Studio

Conclusion

- SAS® Studio offers another option for programmers
  - Web-based – can be added to PC SAS®
  - Server - update once, all connecting get latest version of SAS® Studio PLUS backend SAS®
  - HTML5 so nothing is added to browser
  - More coming including LOTS of Tasks and Snippets
  - *Perspectives* and *Notebook* to suit type of programmer
  - More IDE capabilities

SAS® Studio

Resources

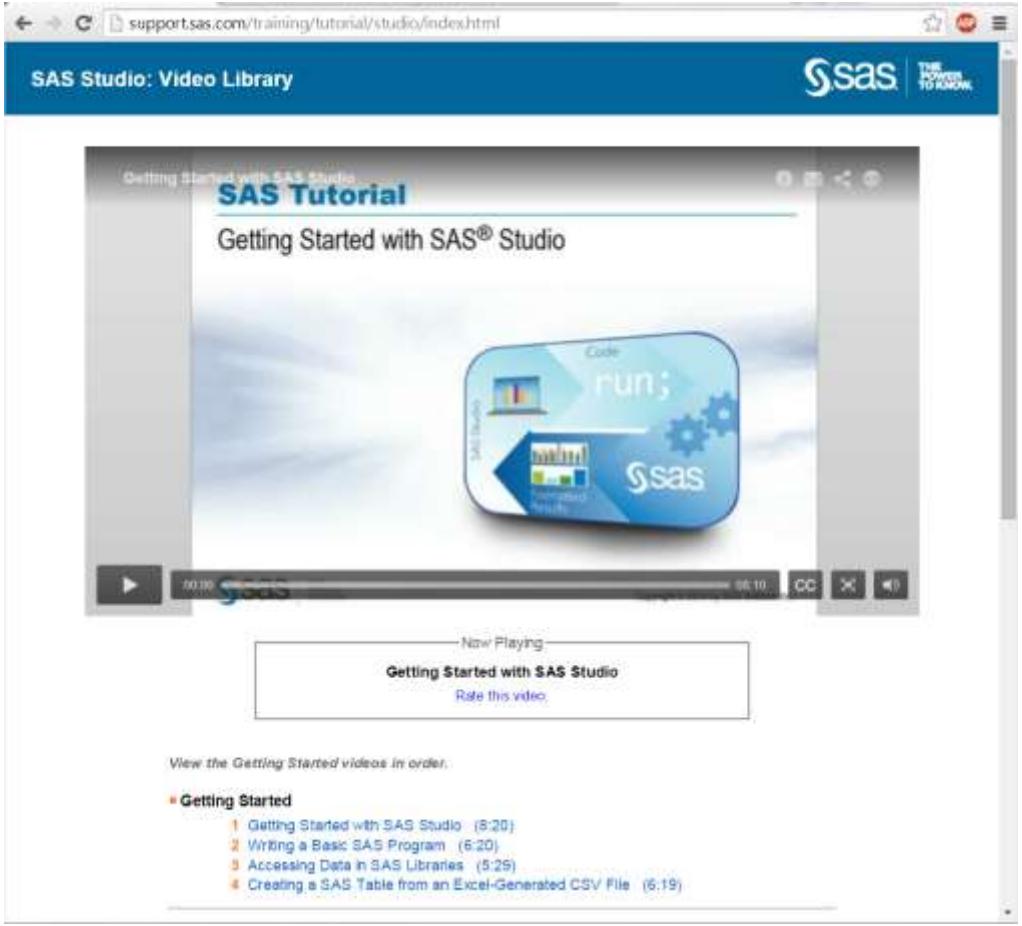
Main SAS® Studio Documentation page

SAS® Studio

Resources

SAS® Studio

Video Library page



SAS® Studio

Recommended Resources

Videos

http://support.sas.com/training/tutorial/#s1=4

http://www.sas.com/reg/web/corp/2305758

Benefits, Features, Fact Sheet

http://www.sas.com/en_us/software/foundation/studio.html

SAS Global Forum Paper

http://support.sas.com/resources/papers/proceedings14/SAS302-2014.pdf

Overview, Documentation, Training, Samples and Tips

http://support.sas.com/software/products/sasstudio/index.html#s1=2

Thank your for your time today and especially for using SAS!

sas.com