



Changes and Enhancements to the SAS® Programming Language in 9.1 and 9.2



Presentation Formats:
 Half-day online or in classroom
 Also see our **half-day** seminar,
 "Using Perl Regular Expressions in the SAS System"

This half-day overview of new tools added to the SAS' programming language identifies many powerful new data management and analysis features you can apply to your SAS programs. Appropriate for data step programmers who want to get the most from what SAS 9 Software offers them!

After taking this seminar you will be able to:

- Apply the PROPCASE function to "clean" name and address fields in your files
- Use the NOTANY and ANY functions to test for the occurrence or nonoccurrence of an alpha or numeric character in a string
- Simplify concatenation of multiple text strings with the CAT "family" of functions and call routines
- Harness the power of Perl Regular Expressions to test for and replace patterns in your text data
- Measure the similarity or dissimilarity of text strings via the COMPGED and COMPLEV functions
- Use descriptive statistics functions to find medians, interquartile ranges and the largest/smallest value from a series of numeric variables
- Use the GEODIST and ZIPCITYSTATE functions to find the distance between two geographic points
- Apply new system options in your SAS programs

Overview

This seminar offers detailed insights in to the powerful data management and analysis capabilities added in Releases 9.1 and 9.2 to the SAS Programming Language. Attending this session shows you how you can effectively apply them to in your SAS programs while saving coding and processing time. The course notes contain numerous examples of how these new tools are used in SAS Data Steps to manage and create SAS data sets.

Intended Audience

Changes and Enhancements to the SAS Programming Language in 9.1 and 9.2 is an advanced-level seminar intended as a successful learning experience for experienced SAS programmers who already use the SAS Programming Language in "data steps" to create SAS data sets. **Individuals who do not already have a firm grasp of SAS Software programming fundamentals are strongly advised to first attend Sierra's "SAS 101" and "Advanced SAS Programming" seminars BEFORE enrolling in this session.**

Topics/Agenda

- **New Functions for Character Data**
 - Finding the first occurrence of an alpha or numeric character with the ANY and NOTANY "families" of programming language functions
 - Using the FIND and FINDC functions to test a character string
 - Counting the number of occurrences of a string or value using the COUNT, COUNTC and COUNTW functions
 - Cleaning your character variables with the PROPCASE function
 - Computing measures of similarity between character variable values with the COMPLEV and COMPGED functions
 - Enhancements to the COMPRESS function
 - Understanding the power of the STRIP function
 - Searching for and replacing values in text strings with SAS' implementation of Perl Regular Expressions
 - Applying the COMPARE function to find where differences occur between two text strings
 - Easy ways to concatenate character strings with the CAT "family" of programming language functions
 - Applying the power of the new SCANQ, CATQ, CHAR, COUNTW, and CMSS Functions
- **Programming Language Functions for Numeric Variables**
 - New descriptive statistics functions
 - MEDIAN
 - IRQ
 - LARGEST
 - SMALLEST
 - Computing percentiles with the PCTL function
 - Computing geographic distances with the GEODIST and ZIPCITYDISTANCE functions
 - New date and time functions
- **New Call Routines and System Options**
- **New Formats and Informats**

Contact Sierra Information Services For More Information:
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