

## 130 30 Sas Macro Variables And Simple Macro Programs

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Paper 130-30 SAS@ Macro Variables and Simple Macro Programs Steven First, Katie Ronk, Systems Seminar Consultants, Madison, WI ABSTRACT SAS macros can be a wonderful extension of the SAS language. This hands-on-workshop will introduce SAS users to SAS macro variables and simple macro programs. Please note that due to time constraints it will be only an

[130-30: SAS@ Macro Variables and Simple Macro Programs](#)

Introduction to Macro Variables. Macro variables are tools that enable you to dynamically modify the text in a SAS program through symbolic substitution. You can assign large or small amounts of text to macro variables, and after that, you can use that text by simply referencing the variable that contains it. Macro variable values have a maximum length of 65,534 characters.

[Macro Variables: Introduction to Macro Variables](#)

Using Macro Variables. After a macro variable is created, you typically use the variable by referencing it with an ampersand preceding its name (&variable-name), which is called a macro variable reference. These references perform symbolic substitutions when they resolve to their value. You can use these references anywhere in a SAS program.

[Macro Variables--Using Macro Variables – Sas Institute](#)

Global macro variables are variables that are available during the entire execution of the SAS session or job. A macro variable created with a %GLOBAL statement has a null value until you assign it some other value. If a global macro variable already exists and you specify that variable in a %GLOBAL statement, the existing value remains unchanged.

[SAS Macro For Beginners – Macro Variables & Functions –](#)

Macro variables are identified in SAS code by preceding the macro variable name with an ampersand. Thus the macro variable DSN will WHERE SEX="&SEX"; be coded as &DSN. TECHNICAL TIP: Professional SAS programmers always refer to the ampersand as "amper" when reading code, and only novice programmers pronounce the full word. The first step in understanding macro variable behavior is to understand how macro variables are resolved.

[Resolving and Using &&var&i Macro Variables – SAS Support](#)

macro variable, %LET, INTO, CALL SYMPUT, macro parameter, %DO INTRODUCTION The macro variable, also known as a symbolic variable, is key to the use of the macro language. With the capability of storing up to 64k bytes of information, you could store a complete program or even the text of a novel within a single macro variable.

[Five Ways to Create Macro Variables: A – Sas Institute](#)

And the reason why the title needs to be a macro variable of macro variables is that the %MACRO loops through the data (produces multiple graphs from subsets of input data). And the t1,t2 etc. contains the current value of the "by" variables which are used for the subsetting. So in other words the title changes throughout the %MACRO itself.

[Solved: Macro variables inside a macro variable – SAS –](#)

Too often I see hundreds of sas files contain macros with no documentation examples, macro definitions with no relevance, useless macros (for instance why write a mysort() macro rather than use proc sort, it may save you a character or two to type, but if your not the initial programmer then it is not transparent - look up obfuscation), no consistency, and macros which just don't work outside ...

[Solved: sharing variables between macros – SAS Support –](#)

A macro definition cannot contain a CARDS statement, a DATALINES statement, a PARMCARDS statement, or data lines. Use an INFILE statement instead. By default, a defined macro is an entry in a SAS catalog in the WORK library. You can also store a macro in a permanent SAS catalog for future use.

[Macro Statements: %MACRO Statement – support.sas.com](#)

Hi all, I want to use the values of a variable in a dataset as macro variables in other procedure. I'm using the CALL SYMPUT option but something is wrong. Consider the follow example. DATA nowanted; infile datalines truncover; input variables \$ freq ;\$10.; datalines; Var3 100 Var6 100 Var8 100 run...

[Using values from a dataset as macro variables – Sas Institute](#)

SAS Programs and Macro Processing Tree level 3. Node 2 of 12 . Macro Variables ... Node 30 of 31. Other Resources Tree level 1. Node 31 of 31. Loading. Loading. Macro Language Reference ... Manipulating Macro Variable Values with Macro Functions Tree level 4. Node 7 of 7 . Macro ...

[SAS Help Center: Macro Variables](#)

When we submit our program, SAS will process the macro variables first, substituting them with the text string they were defined to be and then process the program as a standard SAS program. %let indvars = write math female socst; proc means data = hsb2; var &indvars; run; proc reg data = hsb2; model read = &indvars; run; quit; We can display macro variable value as text in the log window by using %put statement.

[Introduction to SAS Macro Language – IDRE Stats](#)

```
%macro rename3(oldprefix, newprefix, num); %let k=1; %do %while(&k <= &num); rename &oldprefix.&k = &newprefix.&k; %let k = %eval(&k + 1); %end; %mend; data a ; set faminc; %rename3(faminc, oldfaminc, 12); run; proc print data = a heading= h noobs; run;
```

[A few SAS macro programs for renaming variables dynamically](#)

1 Paper 130-30 SAS@ Macro Variables and Simple Macro Programs Steven First, Katie Ronk, Systems Seminar Consultants, Madison, WI ABSTRACT SAS macros can be a wonderful extension of the SAS language. This hands-on-workshop will introduce SAS users to SAS macro variables and simple macro programs. Please note that due to time constraints it will be only an introduction.

[macro sas – SUGI 30 Hands-on Workshops Paper 130-30 SAS –](#)

The parameter in the first position is VAR, which represents the SAS variables that appear in the VAR statement. The parameter in the second position is SUM, which represents the SAS variables that appear in the SUM statement. %macro prnt (var,sum); proc print data=srhigh; var &var; sum ? run; %mend prnt;

[SAS Help Center: %MACRO Macro Statement](#)

Node 30 of 31. Other Resources Tree level 1. Node 31 of 31. Loading. Loading. Macro Language Reference . SAS 9.4 / Viya 3.5. 9.4\_3.4; ... Global macro variables are variables that are available during the entire execution of the SAS session or job. A macro variable created with a %GLOBAL statement has a null value until you assign it some other ...

[SAS Help Center: %GLOBAL Macro Statement](#)

Using the Macro Facility in SAS Viya Tree level 4. Node 2 of 6. Replacing Text Strings Using Macro Variables Tree level 4. Node 3 of 6. Generating SAS Code Using Macros ... Node 30 of 31. Other Resources Tree level 1. Node 31 of 31. Loading. Loading. Macro Language Reference ...

This book provides beginners with a thorough foundation in SAS macro programming. The macro facility is a popular part of SAS. Macro programming is a required skill for many SAS programming jobs, and the SAS Advanced Programming Certification Exam tests macro processing concepts. Whether you're looking to become certified, land a job, or increase your skills, you'll benefit from SAS Macro Programming Made Easy, Third Edition. By following Michele Burlew's examples and step-by-step instructions, you'll be able to rapidly perform repetitive programming tasks, to pass information between programming steps more easily, and to make your programming easier to read. Updated for SAS 9.4, this book teaches you the elements of the macro facility (macro variables, macro programs, macro language), how to write a macro program, techniques for macro programming, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. Ultimately, any user interested in automating their programs—including analysts, programmers, and report writers—will find Michele Burlew's book an excellent tutorial. This book is part of the SAS Press program.

For SAS programmers or analysts who need to generalize their programs or improve programming efficiency, Art Carpenter thoroughly updates his highly successful second edition of Carpenter's Complete Guide to the SAS Macro Language with an extensive collection of new macro language techniques and examples. Addressing the composition and operation of the SAS macro facility and the SAS macro language, this third edition offers nearly 400 ready-to-use macros, macro functions, and macro tools that enable you to convert SAS code to macros, define macro variables, and more! Users with a basic understanding of Base SAS who are new to the SAS macro language will find more detail, utilities, and references to additional learning opportunities; advanced macro language programmers who need help with data-driven macros and dynamic application development will find greatly expanded treatment of these topics. This revised and enlarged edition includes the following topics: New and expanded introduction to the macro language Functions, automatic macro variables, and macro statements new to the macro language Expanded macro language tools that interface with the operating system Expanded data-driven methodologies used to build dynamic applications Expanded discussion of list processing, with four alternative approaches presented Additional file and data management examples Expanded discussion of CALL EXECUTE and DOSUBL New discussion of using the macro language on remote servers Expanded discussion and examples of macro quoting Far beyond a reference manual issued from an "ivory tower," this book is pragmatic and example-driven: Yes, you will find syntax examples; yes, the code is explained. But the focus of this book is on actual code used to solve real-world business problems. In fact, an entire appendix is dedicated to listing the nearly 70 classes of problems that are solved by programs covered in this edition. Discussion of the examples elucidates the pros and cons of the particular solution and often suggests alternative approaches. Therefore, this book provides you both a compendium of reusable and adaptable code, and opportunities for deepening your understanding and growing as a SAS programmer.

Providing both a compendium of reusable and adaptable code, and opportunities for deepening your understanding and growing as a SAS programmer, this pragmatic, example-driven reference offers nearly 400 ready-to-use macros, macro functions, and macro tools that enable you to convert SAS code to macros, define macro variables, and more. --

Reduce the cost and time of cleaning, managing, and preparing research data while also improving data quality! Have you ever wished there was an easy way to reduce your workload and improve the quality of your data? The Data Detective's Toolkit: Cutting-Edge Techniques and SAS Macros to Clean, Prepare, and Manage Data will help you automate many of the labor-intensive tasks needed to turn raw data into high-quality, analysis-ready data. You will find the right tools and techniques in this book to reduce the amount of time needed to clean, edit, validate, and document your data. These tools include SAS macros as well as ingenious ways of using SAS procedures and functions. The innovative logic built into the book's macro programs enables you to monitor the quality of your data using information from the formats and labels created for the variables in your data set. The book explains how to harmonize data sets that need to be combined and automate data cleaning tasks to detect errors in data including out-of-range values, inconsistent flow through skip paths, missing data, no variation in values for a variable, and duplicates. By the end of this book, you will be able to automatically produce codebooks, crosswalks, and data catalogs.

SAS software has been in existence for a long time and has been implemented in large, data-intensive environments, including data warehouses. This SAS book covers practical programming considerations to make when involving SAS in a data warehouse environment. You'll be able to develop the skills you need to apply SAS in your working environment.

Statistical Data Mining Using SAS Applications, Second Edition describes statistical data mining concepts and demonstrates the features of user-friendly data mining SAS tools. Integrating the statistical and graphical analysis tools available in SAS systems, the book provides complete statistical data mining solutions without writing SAS program co

PROC REPORT by Example: Techniques for Building Professional Reports Using SAS provides real-world examples using PROC REPORT to create a wide variety of professional reports. Written from the point of view of the programmer who produces the reports, this book explains and illustrates creative techniques used to achieve the desired results. Each chapter focuses on a different concrete example, shows an image of the final report, and then takes you through the process of creating that report. You will be able to break each report down to find out how it was produced, including any data manipulation you have to do. The book clarifies solutions to common, everyday programming challenges and typical daily tasks that programmers encounter. For example: obtaining desired report formats using style templates supplied by SAS and PROC TEMPLATE, PROC REPORT STYLE options, and COMPUTE block features employing different usage options (DISPLAY, ORDER, GROUP, ANALYSIS, COMPUTED) to create a variety of detail and summary reports using BREAK statements and COMPUTE blocks to summarize and report key findings producing reports in various Output Delivery System (ODS) destinations including RTF, PDF, XML, TAGSETS.RTF embedding images in a report and combining graphical and tabular data with SAS 9.2 and beyond Applicable to SAS users from all disciplines, the real-life scenarios will help elevate your reporting skills learned from other books to the next level. With PROC REPORT by Example: Techniques for Building Professional Reports Using SAS, what seemed complex will become a matter of practice. This book is part of the SAS Press program.

Are you a data mining analyst, who spends up to 80% of your time assuring data quality, then preparing that data for developing and deploying predictive models? And do you find lots of literature on data mining theory and concepts, but when it comes to practical advice on developing good mining views find little "how to information? And are you, like most analysts, preparing the data in SAS? This book is intended to fill this gap as your source of practical recipes. It introduces a framework for the process of data preparation for data mining, and presents the detailed implementation of each step in SAS. In addition, business applications of data mining modeling require you to deal with a large number of variables, typically hundreds if not thousands. Therefore, the book devotes several chapters to the methods of data transformation and variable selection. A complete framework for the data preparation process, including implementation details for each step. The complete SAS implementation code, which is readily usable by professional analysts and data miners. A unique and comprehensive approach for the treatment of missing values, optimal binning, and cardinality reduction. Assumes minimal proficiency in SAS and includes a quick-start chapter on writing SAS macros.

Annotation SAS/IML software is a powerful tool for data analysts because it enables implementation of statistical algorithms that are not available in any SAS procedure. Rick Wicklin's Statistical Programming with SAS/IML Software is the first book to provide a comprehensive description of the software and how to use it. He presents tips and techniques that enable you to use the IML procedure and the SAS/IML Studio application efficiently. In addition to providing a comprehensive introduction to the software, the book also shows how to create and modify statistical graphs, call SAS procedures and R functions from a SAS/IML program, and implement such modern statistical techniques as simulations and bootstrap methods in the SAS/IML language. Written for data analysts working in all industries, graduate students, and consultants, Statistical Programming with SAS/IML Software includes numerous code snippets and more than 100 graphs.

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