

Boston Area SAS® Users Group Announcement
SAS Blowout Event & Trainings!
Co-hosted by BASUG and SAS Institute Inc.

Monday November 5, 2018 ~ All-day Blowout Event
Tuesday November 6, 2018 ~ Morning & Afternoon Trainings

3 Internationally-known SAS Gurus:

Art Carpenter, Vince DelGobbo, Mark Jordan

2 Days of Presentations and Trainings:

Macros, Excel, DS2, and more!

1 Blowout Not to be Missed!!!

BASUG is thrilled that our 2018 Blowout will feature two days of trainings and presentations. Together, our speakers have authored 5 books, and well over 100 user group papers. People fly around the world to see them present at SAS Global Forum, but you can hop on the Red Line and come see them right here in Boston!

Come to any or all of these events!

REGISTRATION IS NOW OPEN

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| Monday, November 5 th BASUG's Annual SAS Blowout! 8:15-4:30 Come for the day and enjoy a continental breakfast, lunch, and Ice Cream Social. Click here for meeting details |
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| Tuesday, November 6 th 8:30-12:30– Morning Training 12:30-5:00 – Afternoon Training Breakfast and Lunch included Click here for training details |
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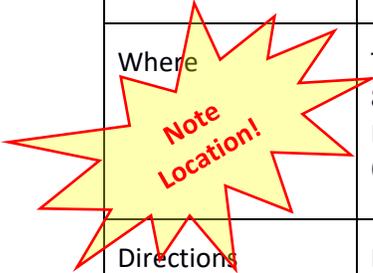
**Boston Area SAS® Users Group Announcement
SAS Blowout Event
Co-hosted by BASUG and SAS Institute Inc.**

Monday November 5, 2018 ~ All-day Blowout Event

Come for all or part of the day, and be sure to stay for our make-your-own sundae social event, where you can schmooze with your colleagues and this incredible team of presenters.

On the day following our meeting, we are also hosting two trainings taught by Art Carpenter. For details about the trainings, [click here](#).

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| What | BASUG's Annual SAS Blowout! |
| When | Monday, November 5, 2018 8:15 AM – 4:30 PM |
| Where | The NonProfit Center developed by TSNE MissionWorks ¹ 89 South Street Boston, MA 02111 617-439-3142  |
| Directions | Please visit the meeting site directions page |
| How to register | Individual, on-line registration required. Please visit the event registration page Registration closes at NOON on FRIDAY November 2nd! NO WALK-INS! On-line pre-registration is required for all attendees!! |
| Payment | \$25 – if paid on-line by Friday, October 26 \$35 – if paid on-line by NOON on Friday, Nov. 2nd \$50 – pay-at-the-door (checks only) – but pre-registration is required! |
| Contact | If you have questions about the meeting, contact our meeting organizers: Rita Volya, Jean Roth, Quentin McMullen, Paul Grant at: Event Organizers , |



Agenda*

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| 8:15AM | Sign in and Continental Breakfast |
| 8:45AM | Announcements |
| 9:00 AM | I've Got to Hand It to You; Portable Programming Techniques by Art Carpenter , Independent Consultant/Statistician |

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| 9:50 AM | BREAK |
| 10:00 AM | <u>A Brief Introduction to the DS2 Programming Language in SAS</u> by <u>Mark Jordan</u> , Principal Technical Training Consultant, SAS Institute |
| 10:50 AM | BREAK |
| 11:05 AM | <u>Manipulating Statistical and Other Procedure Output to Get the Results That You Need</u> by <u>Vince DelGobbo</u> , Sr Software Developer - SAS Research & Development, SAS Institute |
| 12:15 PM | Networking Lunch |
| 1:15 PM | <u>Using PROC FCMP to the Fullest: Getting Started and Doing More</u> by <u>Art Carpenter</u> , Independent Consultant/Statistician |
| 2:05 PM | BREAK |
| 2:15 PM | <u>Working with Big Data in SAS®</u> by <u>Mark Jordan</u> , Principal Technical Training Consultant, SAS Institute |
| 2:35 PM | <u>Fun with the SAS® FILENAME Statement</u> by <u>Mark Jordan</u> , Principal Technical Training Consultant, SAS Institute |
| 2:55 PM | BREAK |
| 3:05 PM | <u>An Overview of the ODS Destination for Excel</u> by <u>Vince DelGobbo</u> , Sr Software Developer - SAS Research & Development, SAS Institute |
| 3:35 PM | Closing & Raffle |
| 3:45 – 4:30 PM | Ice Cream Social!!! |

*Note: Times (and sequence) are approximate and subject to change. Please re-visit the BASUG website (www.basug.org) for updated information.

Abstracts and Speaker Biographies

I've Got to Hand It to You; Portable Programming Techniques

by [Art Carpenter](#)

As technology expands, we have the need to create programs that can be handed off – to clients, to regulatory agencies, to parent companies, or to other projects, and handed off with little or no modification by the recipient. Minimizing modification by the recipient often requires the program itself to self-modify. To some extent the program must be aware of its own operating environment and what it needs to do to adapt to it. There are a great many tools available to the SAS® programmer, which will allow the program to self-adjust to its own surroundings. These include location-detection routines, batch files based on folder contents, the ability to detect the version and location of SAS, programs that discern and adjust to the current operating system and the corresponding folder structure, the use of automatic and user defined environmental variables, and macro functions that use and modify system information. Need to create a portable program? We can hand you the tools.

Using PROC FCMP to the Fullest: Getting Started and Doing More

by [Art Carpenter](#)

The FCMP procedure is used to create user defined functions. Many users have yet to tackle this fairly new procedure, while others have only attempted to use only its simplest options. Like many tools within SAS®, the true value of this procedure is only appreciated after the user has started to learn and use it. The basics can quickly be mastered and this allows the user to move forward to explore some of the more interesting and powerful aspects of the FCMP procedure. Starting with the basics of the FCMP procedure, this paper also discusses how to store, retrieve, and use user defined compiled functions. Included is the use of these functions with the macro language as well as with user defined formats. The use of PROC FCMP should not be limited to the advanced SAS user; even those fairly new to SAS should be able to appreciate the value of user defined functions.



Art Carpenter, an independent consultant and statistician, has been a SAS user since 1977. His impressive list of publications includes Carpenter's Guide to Innovative SAS Techniques; Carpenter's Complete Guide to the SAS REPORT Procedure; Carpenter's Complete Guide to the SAS Macro Language, Third Edition; Annotate: Simply the Basics; his co-authored Quick Results with SAS/GRAPH Software; and two chapters in Reporting from the Field. He also has served as the general editor of Art Carpenter's SAS Software Series. As an Advanced SAS Certified Professional, Art has presented more than a hundred papers, posters, and workshops at SAS Global Forum, SAS Users Group International (SUGI) conferences, and various SAS regional conferences. Art has received several best-contributed-paper awards, and he has served in a variety of leadership roles for local, regional, national, and international users groups, including conference chair and executive board member of the SAS Global Users Group.

An Overview of the ODS Destination for Excel

by [Vince DelGobbo](#)

A new ODS destination for creating Microsoft Excel workbooks is available starting in the third maintenance release of SAS® 9.4. This destination creates native Microsoft Excel XLSX files, supports graphic images, and offers other advantages over the older ExcelXP tagset. This presentation highlights several old and new features of this destination.

Manipulating Statistical and Other Procedure Output to Get the Results That You Need

by [Vince DelGobbo](#)

Many scientific and academic journals require that statistical tables be in a specific format (for example, the American Psychological Association [APA] style). This paper shows you how to change the output of any SAS® procedure to conform to any journal or corporate style. You'll learn how to save data from any SAS procedure, change the data format using the DATA step, and dynamically create a format based on your data. You'll also use the SAS Output Delivery System (ODS) inline formatting functions and style overrides, and produce several output formats, including HTML, RTF (for Microsoft Word), PDF, and Microsoft Excel files. Finally, you'll learn how to create and deliver the output on-demand using SAS server technology. This paper is appropriate for all SAS skill levels.



Vince DelGobbo is a Senior Software Developer in the Metadata and Execution Services group at SAS. This group's responsibilities include the SAS/IntrNet Application Dispatcher and SAS Stored Processes. He is involved in the development of new Web- and server-based technologies, as well as integrating SAS output with Microsoft Office. He was also involved in the

early development of the ExcelXP ODS tag set. Vince has been a SAS Software user since 1982, and joined SAS in 1992.

Working with Big Data in SAS®

by [Mark Jordan](#)

This paper demonstrates challenges and solutions when using SAS® to process large data sets.

Learn how to do the following:

- Use SAS system options to evaluate query efficiency
- Tune SAS programs to improve big data performance
 - Modify SQL queries to maximize implicit pass-through
 - Re-architect processes to improve performance
- Identify situations where data precision could be degraded
- Leverage FedSQL and DS2 for
 - Parallel processing on the SAS platform for improved performance
 - Full precision calculations with ANSI data types
 - In-database processing with the SAS In-Database Code Accelerator
 - Fast, distributed, in-memory processing on the SAS® Viya® Cloud Analytic Server (CAS)

A Brief Introduction to the DS2 Programming Language in SAS

by [Mark Jordan](#)

This paper demonstrates using Base SAS® to process data stored in a variety of popular formats and execute several utility tasks.

Topics:

- What is DS2 and Why Should You Care?
- Basic DS2 DATA Program Syntax
- DS2 Packages
- DS2 Thread Programs
- DS2 DATA Program Syntax
- Converting Existing DATA Step Processes to DS2
- Parallel Processing on the SAS Server with DS2 Threads
- Executing DS2 Threads on Massively Parallel Processing (MPP) Platforms
- SAS Viya® Cloud Analytic Server (CAS)
- In-Database Processing
- Hadoop
- Teradata
- Greenplum

Fun with the SAS® FILENAME Statement

by [Mark Jordan](#)

This paper demonstrates using Base SAS® to process data stored in a variety of popular formats and execute several utility tasks.

Learn how to:

- Open and read a text file located on a remote FTP server in place, without first downloading the file
- Open and read a text file located on a remote web server in place, without first downloading the file
- Read and write to files stored in the popular ZIP archive format.
- Execute an operating system command and process the results as if it was a text file
- Have your SAS program send email on your behalf.



Mark Jordan grew up in northeast Brazil as the son of Baptist missionaries. During his career in Navy submarines, he pursued his passion for programming as a hobby – a hobby which eventually became his dream job. After retiring from the Navy and 9 years as a SAS programmer in manufacturing and financial services, he started working at SAS, where he now serves as Foundation Programming Curriculum Lead for SAS Education. Mark has produced and teaches a broad spectrum of SAS programming classes, and just published the second edition of his book "Mastering the SAS DS2 Procedure: Advanced Data Wrangling Techniques".

When not in the classroom, Mark sporadically posts "Jedi SAS Tricks" on the SAS Learning Post blog, enjoys playing with his grand and great-grandchildren, hanging out at the beach and reading science fiction novels. His secret obsession is flying toys - (kites and rockets and drones, oh my!) He currently lives in Toano, VA with his wife Lori and their cat, the amazing Tiger Man. Read his blog at <http://sasjedi.tips> or find him on Twitter @SASJedi.

BASUG Contacts

Mailing Address:

BASUG
PO Box 170253
Boston, MA 02117

Email the [BASUG Webmaster](#)

- (1) The NonProfit Center located in the heart of Boston's political and financial hub, the center brings together organizations committed to pursuing social and economic change in a shared space. The NonProfit Center is housed in an architecturally distinctive property, listed on the National Register of Historic Places. It is conveniently located just one block from the South Station transportation center, an easy walk to the Massachusetts State House, Boston City Hall, restaurants and downtown Boston.