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SAS 9.2 a first look

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Agenda

- SAS 9.2 Key Highlights
- Proc SORT
- SAS/Graph
- PDF Output
- Proc FCMP
- Conclusion / Questions

Key Highlights

Universal Printing

- PNG (Portable Network Graphics)
- SVG (Scalable Vector Graphics)
- PDF/A (Archivable PDF documents)

National Language Support

- Additional international informats and formats
- Linguistic collation for sorting

Internet Protocol

- The new IPv6 is supported

Key Highlights

Performance

- Resume batch jobs exactly where they stopped
- Proc SQL has been optimized for queries to external DBMS

Security

- The AES (Advanced Encryption Standard) is supported

Diagnostics

- New SCAPROC Proc (SAS Code Analyzer)
- New JAVAINFO Proc



Key Highlights

User Defined Functions

- New PROTO Proc - create new functions in C, C++
- New FCMP Proc - create new functions in SAS

ODS Statistical Graphics

- Now embedded in 50+ Procs
- ODS Graphics Editor - GUI

1 - Proc SORT

uppercase and lowercase letters are **sorted based on their internal storage representation**, NOT their position in the alphabet.

ASCII encoding: **uppercase Z precedes lowercase a**
(Windows, UNIX)

 **Sorting mixed case will be problematic!**

SAS 9.2 solution: SORTSEQ = LINGUISTIC option

- Sorts based on the language rules for the current locale setting

2 - SAS/Graph

It's a tedious task to make **minor changes to the graphs!**

SAS 9.2 solution: ODS Graphics Editor:
Interactive GUI to make changes easy

- No more complex coding with the Graph Template Language (GTL)
- Edit, add or delete title and footnotes
- Reposition the legends
- Customize the visual properties of plots and axes
- Add free-form annotation
- Save and export the graphic

3 - PDF Output

The PDF destination of ODS is great, but the documents it produces **aren't secured!**

SAS 9.2 Solution: New Systems Options

- **PDFSECURITY**

 - encrypt your PDF output

 - two levels: 40-bit (low) and 128-bit (high)

- **PDFPASSWORD**

 - User password - used to open an encrypted PDF document

 - Owner password - used to validate the owner

4 - Proc FCMP

Don't you wish you could **simplify your Data Step coding** and avoid overusing Macros?

SAS 9.2 Solution: New SAS/BASE: **Proc FCMP**
(Function Compile)

You can create your own user defined Data Step Functions

- less awkward than Macros because it is using Data Step syntax
- don't have to worry about Local and Global variables
- easier to maintain complex code

To learn more

- **Short News**

SAS advances enterprise intelligence with significant software release

<http://www.sas.com/news/preleases/031708/SAS9.2.html>

- **Documentation**

What's new SAS 9.2

<http://support.sas.com/documentation/whatsnew/index.html>

SAS 9.2 Technical Documentation

<http://support.sas.com/cdlsearch?ct=80000>



Questions?



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Thanks!

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