

Vancouver SAS Users Group

07OCT2009

Tips and tricks in SAS 9.2

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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

ASCII collating sequence

- UNIX, Windows & OpenVMS

- English-language ASCII sequence:

blank ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 :
 ; < = > ? @ A B C D E F G H I J K L M N O P Q R
 S T U V W X Y Z [\] ^ _ a b c d e f g h i j k l m n o p
 q r s t u v w x y z { } ~

- Digits are sorted before uppercase letters
 Uppercase letters are sorted before lowercase

Option STRENGTH=

- | | | |
|-----------|-----------|-------|
| ■ Primary | “a” < “b” | order |
|-----------|-----------|-------|

- | | | |
|-------------|--------------------|---------|
| ■ Secondary | “as” < “às” < “at” | accents |
|-------------|--------------------|---------|

- | | | |
|------------|--------------------|-----------|
| ■ Tertiary | “ao” < “Ao” < “aò” | uppercase |
|------------|--------------------|-----------|

- | | | |
|--------------|---------------------|-------------|
| ■ Quaternary | “ab” < “a-b” < “aB” | punctuation |
|--------------|---------------------|-------------|

- | | | |
|-------------|-------------|------------|
| ■ Identical | specialized | ex: Hebrew |
|-------------|-------------|------------|

2 - 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

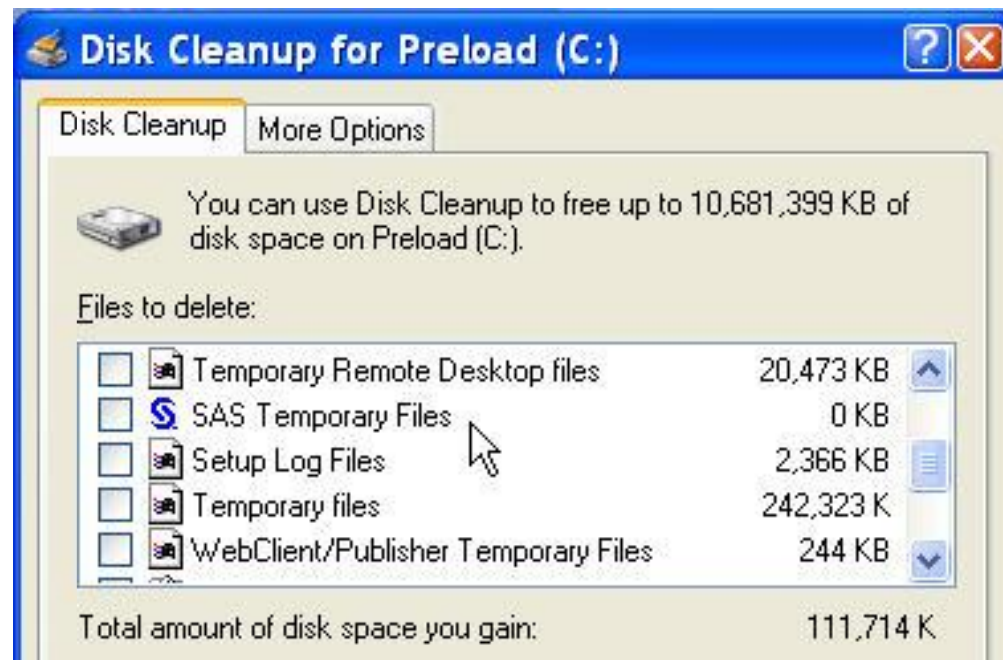
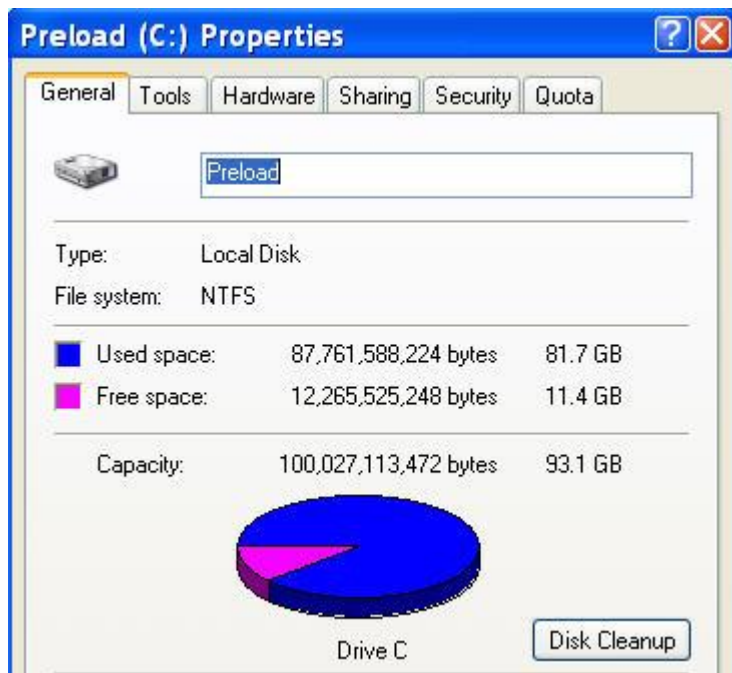
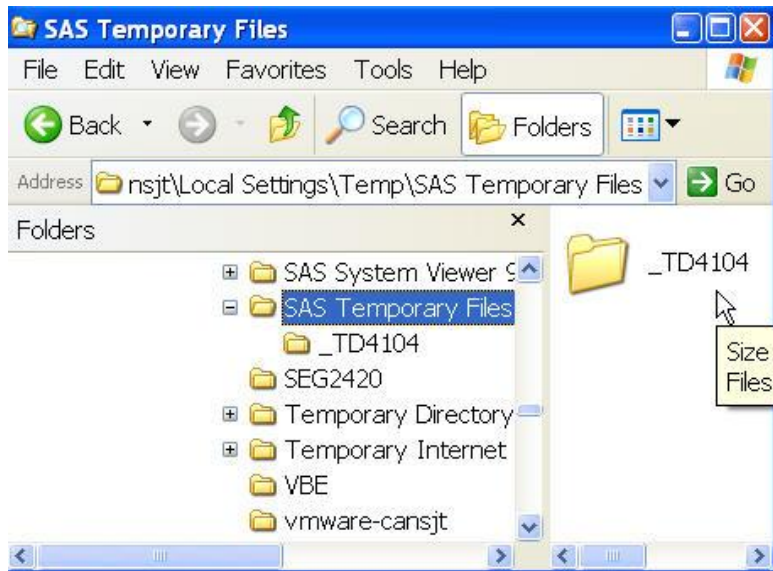
 - Owner password - used to validate the owner

3 – SAS Disk Cleanup Handler Utility

Temporary SAS files that were not deleted correctly are **eating your disk space !**

SAS 9.2 Solution: SAS Disk Cleanup Handler Utility

- **COM hook into the Microsoft Disk Cleanup Handler (cleanmgr.exe)**
- **Automating Cleanup with Microsoft Task Scheduler**



Questions?



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Thanks!

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