SAS 9.4 Installation Tips – For Windows

Important Note: See Professor Kapitula, kapitull@gvsu.edu, or contact IT if you have issues.
The Statistics department office cannot help with SAS installation.

If you have a MAC I recommend SAS University Edition http://www.sas.com/en_us/software/university-edition.html
Or some students use a Virtual Machine on their Mac and then install SAS. Prof. Zeitler is the person to ask if you have a Mac and want ideas for that.

There are three different installation options for SAS 9.4. All options require a flash drive with between 10 and 16 GB of space free. SAS is a windows product.

What you will need:
1. A flash drive with minimally 10 GB of empty space on it.
2. A Windows computer preferably a newer computer with lots of Ram and Storage, if you have a very basic or old computer you should probably just use SAS on campus.

    -SAS will run on windows 7 professional, ultimate and enterprise and windows 8 and 8.1 And Windows 10 Home, Pro, Enterprise, and Education.   It may run on other windows operating systems as well depending on what options you need.

    -You should have at least 2 GB of Ram and 20 GBs (ideally more) of storage free on your PC.
    Windows 7 SP1 Professional, Ultimate, and Enterprise: Supported in SAS 9.4 Foundation

3. About an hour of time in a campus computer lab to download the Software Depot. The depot is large so it takes a lot of time to download. So get it started copying and then work on something else for an hour.
4. About an hour of time to install SAS on your computer.

Step 1: Pick a SAS Depot to copy. You ONLY need one.

Option 1: SAS for windows no EG, EM or TM (10 GB)

This option is preferred if you will not need SAS Enterprise Guide and you just use what many call "SAS 9.4", or SAS Foundation. This is the smallest version and this software depot only contains English compatibility.

Option 2: SAS for windows no EM or TM (14.7 GB)

This option is preferred if you need to use SAS Enterprise Guide. This is what you will need for Stat 318 and any other undergraduate statistics courses that use SAS and SAS EG.   This version of SAS does allow for installation in languages other than English so if you want to install a version of SAS that works with Chinese or another language this one should work. Use option 2, unless you know you have a reason to use Enterprise Miner and Text Miner.

Option 3: SAS for windows with EM and TM (15.7 GB)

This option might be of use for graduate students and students taking multivariate statistics. EM stands for Enterprise Miner and TM stands for Text Miner, this version has everything in Option 1, plus these other two compents.

Step 2: Copy the SAS software depot to your Flash Drive

-Put flash drive into PC.
-Copy appropriate directory with your selected Software Depot into your Flash Drive. Copy the whole directory. Pick **one** option below based on your choice in Step 1.
Option 1: Copy the whole directory:
R:\STUDENT SOFTWARE\SAS9.4 Software Depot Windows no EG, EM or TM 10 GB
onto your flash drive.
Option 2: Copy the whole directory
R:\STUDENT SOFTWARE\SAS9.4 Software Depot Windows with EG only 14.7 GB
onto your flash drive.
Option 3: Copy the whole directory
R:\STUDENT SOFTWARE\ SAS9.4 Software Depot Windows with EM and TM 15.7GB
Remember this may take about an hour.
Remember to remove your flash drive after it finishes copying.

Step 3: Put the flash drive into your computer, note that I will call the SAS Software Depot Folder you copied **SAS 9.4 Software Depot** folder, even though it in fact has a longer name.

1. In the computer where you want to install. Open the **SAS 9.4 Software Depot** folder.
2. Right-click on "Setup.exe" file in the **SAS 9.4 Software Depot** folder, and click "run as administrator." If prompted "Do you want to allow the following program to make changes to this computer?", click **Yes**. **OK** to English?
3. Select **"Manage this SAS Software Depot" and** select **"Retrieve Hot Fixes" >> Finish.** This will retrieve any updated hot fixes from SAS and update your SAS Software Depot.
4. Right-click on "Setup.exe" file in the **SAS94** folder, and click "run as administrator." **Remember: It may take an hour or more to install SAS.** Lots of waiting in normal.
5. Follow the typical routines. Below are advice on what to select but depending on your deployment and computer you may be asked different questions, I tried to provide answers to all possible questions but if you have a problem ask Prof. Kapitula, kapitull@gvsu.edu
   - **Install SAS Software** >> Next >>
   - **Install SAS Foundation and Related Software** >> Select All(or you may select only certain ones if you do not need or want everything) >> Next >>
   - Leave 64-bit selected if it is available, otherwise leave 32 bit selected if that is what is selected. >> Next>>
   - **Specify SAS installation data file**, it should end in .txt. something like: SAS94_9BJWFW_70132566_Win_X64_Wrkstn.txt it should be found in the directory, Software Depot directory if not you will need to contact IT for a SAS license file or contact Prof. Kapitula for help. >>Next>>
   - **(Clear All) for language unless you want something other than English** >> next >>
   - (A typical) Deployment directory for **SAS Graphs Java Applet:**
        C:\program files\SASHome
     You may need to create this directory if it does not exist.   Do not put it on a network drive, or in My documents, especially if you are faculty.>>Next>>

- **For SAS document conversion**, just go with what is there, >>Next>>
- **For SAS studio basic**, you can go ahead and leave it checked if you might use SAS studio, SAS studio is an interface for running SAS through a web browser., keep clicking or you can just leave it unclicked for now if you have no interest in it, you can do it later if you find you need it. >>Next>>
- **Default Product for SAS File Types** (you may not get this with the subset, or you may only see two options) When you double click a data file, it will be opened with one of three SAS products. You may choose any of the following, but Universal Viewer is preferred by many:
    SAS Foundation
    SAS Enterprise Guide
    SAS Universal Viewer*

You may also be asked the following depending on your deployment:

- If asked about Ports, use the default Ports provided.
- **(A typical) Deployment directory for SAS Graphs Java Applet: C:\program files\SASHome**
- **URL for SAS environments**: Leave the blank and click Next
  When you see a message "**an unexpected error has occurred**. Would you like to continue with……?"
    o **Yes to ALL**
    o You probably don't need these.
- After completion of installation, Start >> Down arrow >> Click SAS 9.4 (English) or if you have windows 8, SAS 9.4 can be found under Applications.
- (A typical) **Deployment directory for SAS Graphs Java Applet:**
    o **C:\program files\SASHome**   You may need to create this directory if it does not exist.   Do not put it on a network drive, or in My documents, especially if you are faculty.>>Next>>
- For SAS document conversion, just go with what is there, >>Next>>

6. It will check your system, if there are no problems go ahead and click next. If you do not have enough space you will need to free up space on your hard drive or you may not have a computer capable of running SAS.
7. Click Start

8. Do some meditation, stretch, or drink some coffee, as this may take awhile. I do not recommend doing anything else on your computer while SAS installs.

9. After completion of installation, Start >> Down arrow >> Click SAS 9.4 (English) or if you have windows 8 or later, SAS 9.4 can be found under Applications.

Below is especially useful for faculty
If there is an error message regarding SASUSER directory, follow the instruction below.
SASUSER issues: To initialize the SAS kernel
(1) Create a folder "My SAS Files" in the C-drive. In other words, the file directory is C:\My SAS Files.
(2) **Run Notepad as an administrator** (right click on notepad application, click run as administrator)

(3) Open the file, "sasv9.cfg" below using Notepad in the following directory.

C:\Program Files\SASHome\SASFoundation\9.4\nls\en\sasv9.cfg

Note that "sasv9.cfg" may appear when the file type is changed to All Files.

(4) Use EDIT to find the word "SASUSER" or "My SAS FILES" and correct the directory of the location of MY SAS FILES and SASUSER as follows.

-SET MYSASFILES "C:\My SAS Files"
-SASUSER "C:\My SAS Files"

Note: The Double Quotes may not copy correctly if you copy and paste the code fixes above, and you will get a different error when you run SAS if that is the case after making the fix, so if you try the fix above and still get an error when you try to run SAS, go back in and delete and retype the double quotes.

(5) Save and Exit.
(6) Run SAS 9.4

License files are in the directories but if you get an error that you have an outdated license or no license file found, contact IT or Prof Kapitula for a SAS license.

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