Build your own SasView.exe installer from the source code (dev) - Windows 32-bit

Prerequisite: Java must be installed to run the Eclipse software development environment.

Installs: Python2.x & various Python packages (including NumPy, SciPy & wxPython), MinGW, Microsoft Visual C++ 2008 Redistributable & CollabNet Subversion for Windows.

Optional install: Ganymede Eclipse.

1. Download 'S_Python26.zip' (= Python2.6 + external packages required to build SansView) or S_Python27.zip from http://danse.chem.utk.edu/temp/.

2. Extract the zip file (You will need unzip software like the free WinRAR or 7-Zip).

3. Go to the new S_Python26 or S_Python27 folder.

4. If intending to use a pre-installed version of Python 2.6.x or Python 2.7.x, edit 'S_Python_pyinstall.bat' and check the PATH folders and package filenames match your Python. Then REM out the lines installing Python. Also check 'install_ext_packages.py' and 'S_build_sasview.bat'.

5. If necessary (ie, they are not in the zip file for some reason), download from https://pypi.python.org/pypi any packages specified in 'S_Python_pyinstall.bat' or 'install_ext_packages' needed to match your chosen version of Python.

6. Double click S_Python_pyinstall.bat. It will try to install all the packages. You will need to tidy up your C:\ folder afterwards.

7. Right-click on 'install_ext_packages.py' and select 'Edit with IDLE'. Select Run -> Run Module. It will try to re-install any python packages that failed previously.

8. Right-click on 'final_check_required.py' and execute this module in the same way as the previous one. If it shows packages that have not installed, try repeating the previous step. If that doesn't fix things, *either* locate an offending package installer in your S_Python2x folder and double-click on it (if it is .exe), *or* bring up a Windows CMD window, CD to a folder containing a missing package, and type "python setup.py install". Install the package manually with default options.

9. Now go to the Windows Start button and either right click on the 'My Computer' icon (XP), or click on 'Computer' (W7).

- Select 'Properties' (XP) or 'System Properties' (W7).
- In the System Properties panel, select 'Advanced' (XP) or 'Advanced System Settings' (W7). Click on 'Environment Variables'.
- Check there is a PYTHONPATH (user) variable listing various python folders.
- Add the path to the Inno ISCC compiler to the end of PYTHONPATH (probably C:\Program Files (x86)\Inno Setup 5)
- Edit (or click 'New' if it does not exist) 'PATH' and add ;%PYTHONPATH%; to the end of the PATH variable.
- Click OK to confirm and close the panels.

10. Open a Windows CMD window. CD to your S_Python2x folder and then type:

- `S_build_sasview>`*`drive`*`:\`*`installation_path`*`\S_Python2`*`x`*`\New\buildlog.txt 2>&1`
  (note the space between '.txt' and the '2')

- This will download the source code and attempt to build a SasView installer, **setupSasView-n.n.n-py2n-rnnnn.exe**, file in the same folder. All CMD screen output and standard error messages will be directed to the file '**\New\buildlog.txt**' for inspection. *NB: It takes many seconds for the build to start, and many minutes for it to complete! BE WARNED: Some 0.3Gb of files will be downloaded in the process!*

11. In your S_Python_2*x* folder, locate the 'eclipse-SDK' zip file. Extract this to a folder of your choice (eg, C:\Eclipse). Note that Eclipse requires that Java is installed. For instructions on how to use Eclipse to develop SasView, see http://sourceforge.net/apps/trac/sansviewproject/wiki/Development