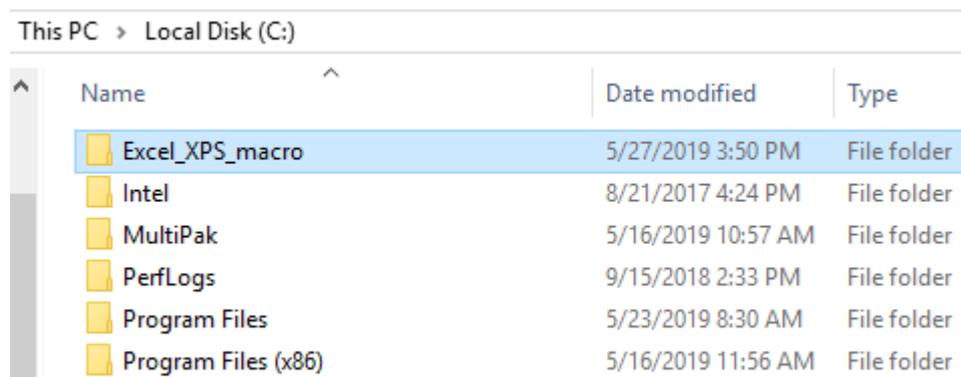


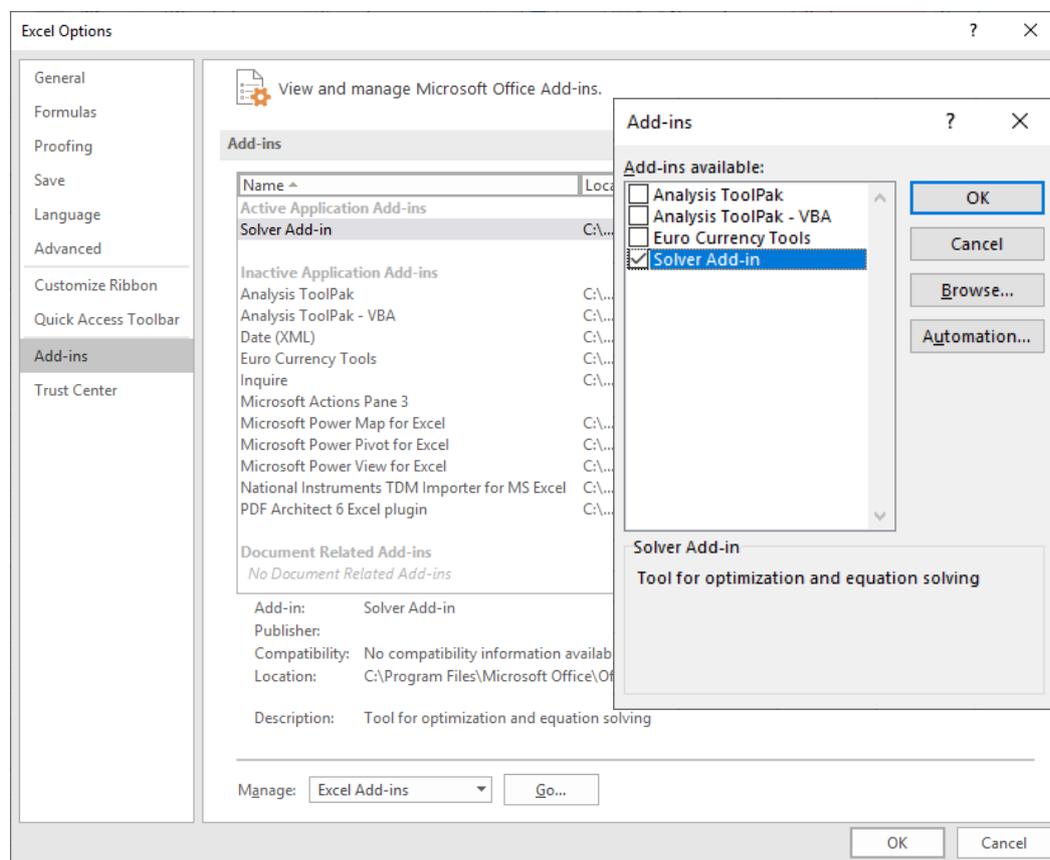
## Instruction how to install Excel XPS macro on Windows Excel 2016

Hideki NAKAJIMA, rev. 24 Jun. 2019.

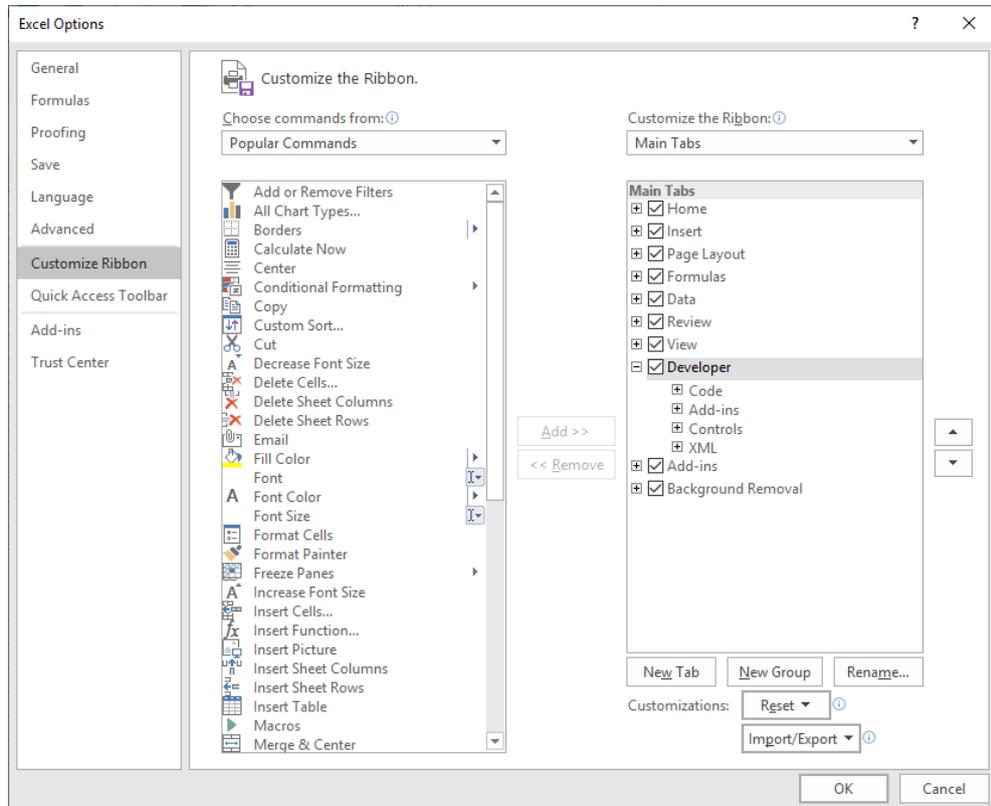
1. Download and unzip the Excel\_XPS\_macro.zip in the top directory of the drive.  
Example, C:\Excel\_XPS\_Macro\ on the C drive.  
Choose carefully the location of macro files above. Do not extract files on Desktop or any other User's directories.



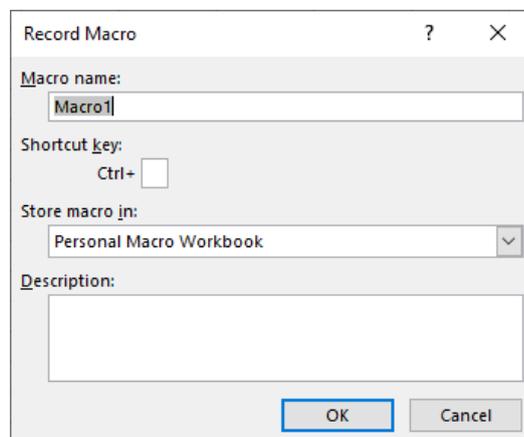
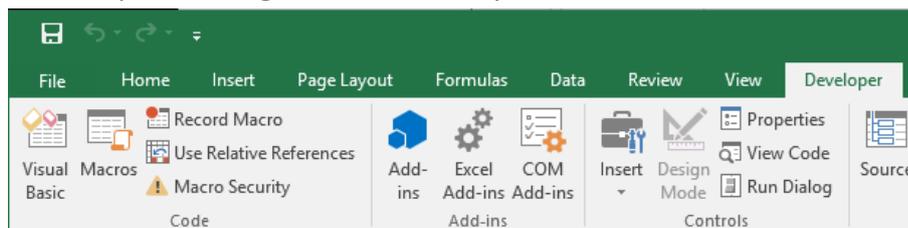
2. Activate Solver add-ins in Excel.
  - a. Install the **Solver add-ins** from Excel File menu - Options - Add-Ins.
  - b. Click Go... from Manage – Excel Add-ins.
  - c. Click on the Solver Add-in checkbox.



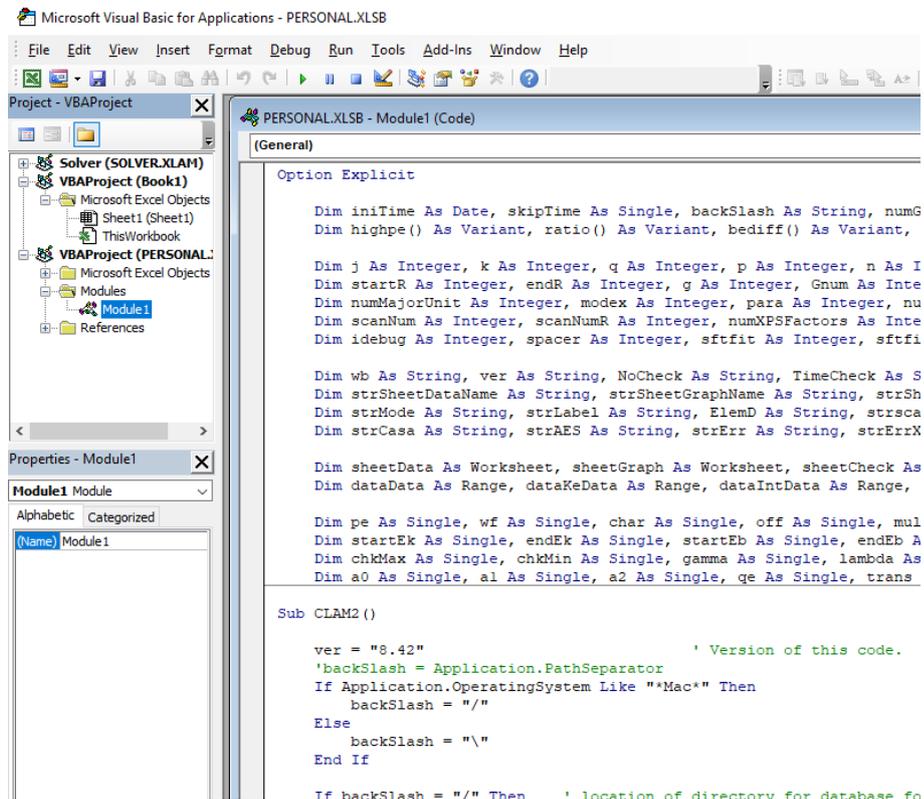
3. Create the Personal Macro Workbook (**personal.xlsb**).
  - a. Show Developer tab in the Ribbon in Excel Options – Customize Ribbon – Click on the Developer checkbox.



- b. Click Record Macro from the Developer tab.
- c. Store macro in: "**Personal Macro Workbook**" and click OK.
- d. Click Stop Recording from the Developer tab at the same location.



4. Install the VBA code (**LoadCLAM842\_std.vb** in Excel XPS macro directory).
  - a. Click the Visual Basic in the Developer tab.
  - b. Open the Personal Macro Workbook from VBAProject (PERSONAL.XLSB) – Modules – Module1.
  - c. Open LoadCLAMxxx.vb with text editor, select all and copy, and paste in the Module1. Note that Macro1 you created above should be deleted.



5. Change the **path to database** location in the code.
  - a. Specify the path where you unzip the Excel XPS macro in the code.
    - i. For example, unzip D:\Excel\_XPS\_macro\ in D drive.
    - ii. direc = "D:\Excel\_XPS\_macro\Data\hideki\XPS\"
    - iii. Do not place the database on the Desktop or User's directories.
  - b. Save the PERSONAL.XLSB from File menu.

```

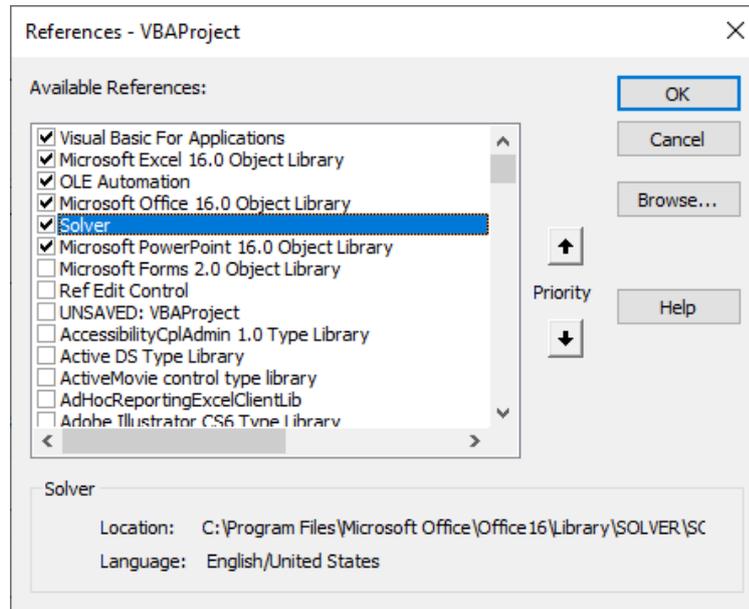
Sub CLAM2 ()

    ver = "8.42" ' Version of this code.
    'backSlash = Application.PathSeparator
    If Application.OperatingSystem Like "*Mac*" Then
        backSlash = "/"
    Else
        backSlash = "\"
    End If

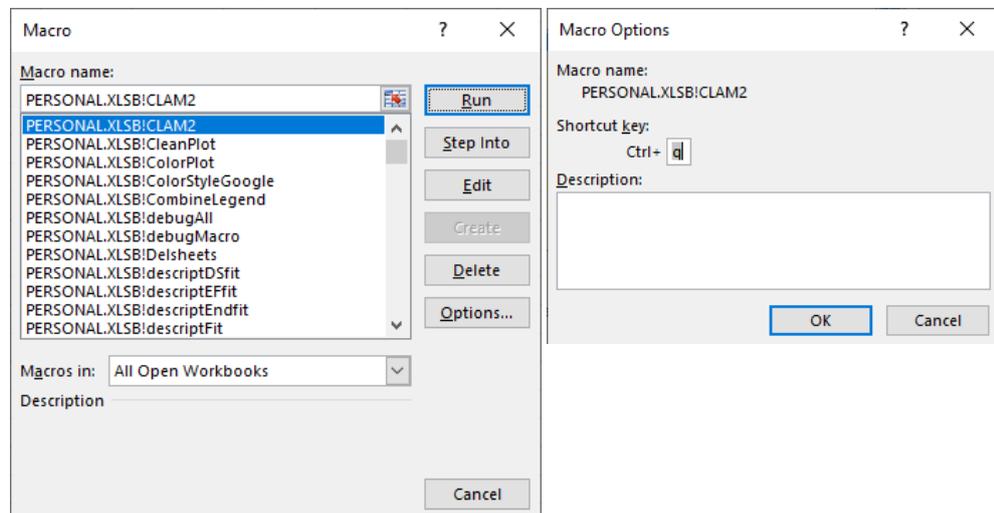
    If backSlash = "/" Then ' location of directory for database for mac (Go
        direc = "Library/Group Containers/UBF8T346G9.Office/MyExcelFolder/XPS/"
        'direc = backSlash + "Users" + backSlash + "hidekinakajima" + backSlash
        'direc = backSlash + "Users" + backSlash + "apple" + backSlash + "Docume
    Else ' Windows
        direc = "D:\Excel_XPS_macro\DATA\hideki\XPS\" ' old style
        'direc = "G:" + backSlash + "Data" + backSlash + "Hideki" + backSlash +
        'direc = "D:" + backSlash + "DATA" + backSlash + "hideki" + backSlash +
        'direc = "C:" + backSlash + "Users" + backSlash + "Public" + backSlash +
    End If

```

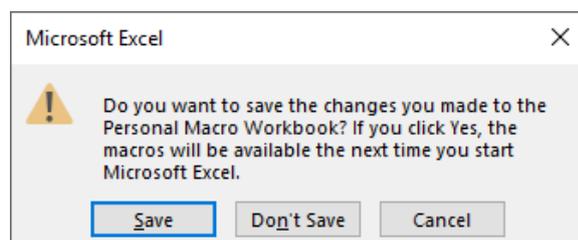
6. Activate the **Solver library** in the VBA project.
  - a. Open the References in the VBAProject from the menu Tools – References.
  - b. Click on the Solver checkbox, and click OK.



7. Assign the **Shortcut key** to run the code.
  - a. Click Macro in the Developer tab.
  - b. Select Personal.xlsb!CLAM2 and Click Options ...
  - c. Type in the key "q", and click OK.

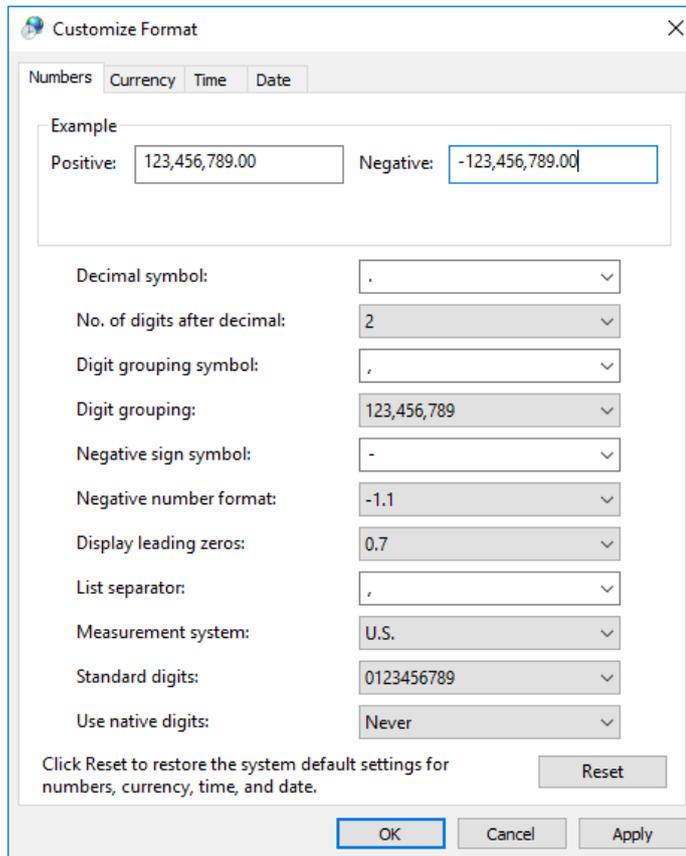


8. Quit Excel and save the macro.



## Appendix: troubleshooting

- Confirm the important settings below.
  - Control Panel – Region and Language – Additional settings ...
  - A dot “.” is used as a decimal symbol.
  - A comma “,” is used as a digital grouping symbol (thousand separator).
  - A comma “,” is used as list separator for csv format.



- No macro appears in VBE.
  - Check Excel instance remained in task manager even after Excel quits.
  - Kill the Excel not working or extra instance in task manager.
- Excel application moves behind the windows after macro runs (Excel 2007-2010).
  - Earlier Excel uses multiple Excel instance, so macro kills extra instance.
- Macro is locked in the message.
  - You make the personal macro workbook Read-me only file to kill message.
  - %AppData%\Microsoft\Excel\XLSTART\PERSONAL.XLSB
- Message appears such as “you cannot save the Personal Macro Workbook ...”.
  - Ignore the message; it is a bug in Excel 2016, or update Excel to be latest.
- Solver is missing.
  - Run the macro either SolverInstall1 or SolverInstall2 listed in macro.
- Update macro in the latest version.
  - Copy the VBA code in module1, setup shortcut key, and save the changes.

- If you cannot access or save the personal.xlsb in XLSTART folder, make a copy of attached personal.xlsb in XLSTART folder and turn off “read-only” status in properties.
  - %AppData%\Microsoft\Excel\XLSTART