Instruction for Installing Julia and Related Packages

For Mac users:

1. Download Julia-v1.0 macOS Package (.dmg) from https://julialang.org/downloads/

2. Run the downloaded .dmg file, a window will pop up, then drag the Julia-1.0 logo into folder “Applications”.

3. Run Julia-1.0 from Launchpad, or open it from Finder by double-clicking on the icon, you should see:

4. Type: import Pkg

5. Type: Pkg.update() – note that this may take a while….

   # Installing basic packages

6. Type: Pkg.add(“JuMP”) to install the JuMP package.

7. Type: Pkg.add(“Cbc”) to install the Cbc package (an open-source integer programming solver).

8. Type: Pkg.add(“Clp”) to install the Clp package (an open-source linear programming solver)

9. Type: Pkg.add(“GLPK”) to install the GLPK package (another open-source linear programming solver)

   # Setting up IJulia: an interactive programming platform

10. Type: ENV[“PYTHON”] = “”

11. Type: ENV[“JUPYTER”] = ””

12. Type: Pkg.add(“IJulia”) to install IJulia

13. Whenever you want to use Jupyter notebook do the following:
    a. Type: using IJulia
    b. Type: notebook()

14. If the above step does not work, you can try running the notebook directly from command window by typing:
    `~/.julia/packages/Conda/m7vem/deps/usr/bin/jupyter notebook`

15. Download Gurobi (v8.1) from: http://www.gurobi.com/downloads/download-center
    a. You will need to register an account first
    b. Be sure to choose “academic account” and register using your Clemson email

16. Install Gurobi by running the file you just downloaded

17. Return to the download webpage http://www.gurobi.com/downloads/download-center, click on button “Academic License” to request an academic license, and follow the instructions therein to activate the academic license.

(Refer to http://www.gurobi.com/documentation/ for Gurobi’s official installation guide)

18. Type: Pkg.add(“Gurobi”)

Finally, give it a test by following Step 7 on page 14 of
http://www.chkwon.net/julia/book/juliabook2-preview.pdf

(copy and paste the codes into the command window)

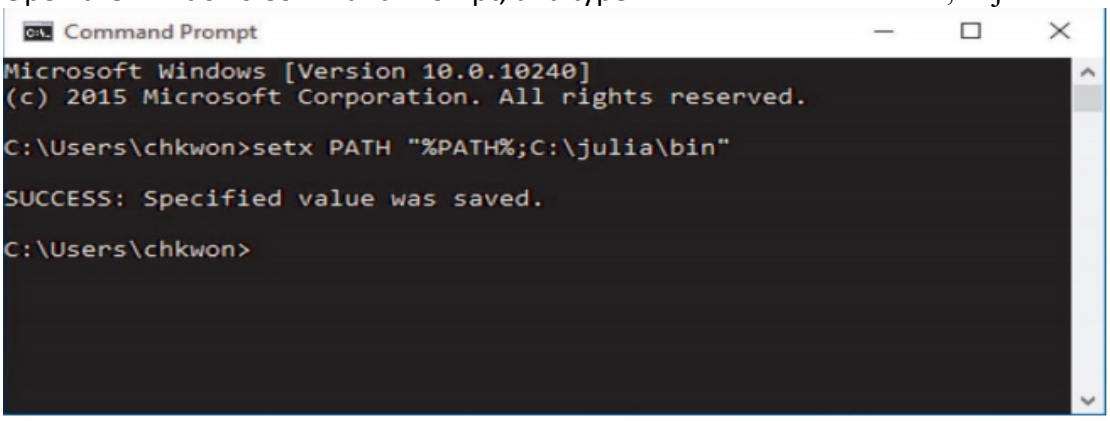
For installation problems on JuMP, also refer to
http://www.juliaopt.org/JuMP.jl/v0.19.2/installation/

For Windows Users:

1. Download Julia-v1.0 Windows Package (.exe) for 64-bit from https://julialang.org/downloads/

2. Run the downloaded .exe file and install the software to directory C:\julia

3. Open the Windows Command Prompt, and type: setx PATH "%PATH%;C:\julia\bin"



4. Open a **new** Windows Command Prompt, and type: echo %PATH%
   You should see C:\julia\bin in the end. If not, you must have something wrong.

5. Run Julia-1.0 from your Windows start menu, you should see

6. Type: import Pkg

7. Type: Pkg.update() – note that this may take a while….

   # Installing basic packages
8. Type: Pkg.add("JuMP") to install the JuMP package.

9. Type: Pkg.add("Cbc") to install the Cbc package (an open-source integer programming solver).

10. Type: Pkg.add("Clp") to install the Clp package (an open-source linear programming solver)

11. Type: Pkg.add("GLPK") to install the GLPK package (another open-source linear programming solver)

    # Setting up IJulia: an interactive programming platform

12. Type: ENV["PYTHON"] = ""

13. Type: ENV["JUPYTER"] = ""

14. Type: Pkg.add("IJulia") to install IJulia

15. Whenever you want to use Jupyter notebook do the following:
    a. Type: using IJulia
    b. Type: notebook()

16. Download Gurobi (v8.1) from: http://www.gurobi.com/downloads/download-center
    a. You will need to register an account first
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(Refer to http://www.gurobi.com/documentation/ for Gurobi's official installation guide)

19. Type: Pkg.add("Gurobi")

Finally, give it a test by following Step 7 on page 14 of
http://www.chkwon.net/julia/book/juliabook2-preview.pdf

(copy and paste the codes into the command window)