

Systems Note 7

Julia on Raspberry Pi

Hardware - Raspberry Pi 4 4GB RAM

OS - Raspberry Pi OS (32 bit) with desktop and recommended software Version May 2020 Kernel 4.19

uname -a gives Linux raspberrypi 5.4.51-v7l+ #1327 SMP date armv7l GNU/Linux

From <http://julialang.org/downloads/oldreleases> download v1.3.1 32-bit (Armv7-a hard float)

In File Manager unzip julia1.3.1-linux-armv7l.tar.gz to /home/pi/jn_production

In pipenv shell (See Note 2) echo 'export PATH="\$PATH:/home/pi/jn_production/julia-1.3.1/bin"' >> ~/.bashrc

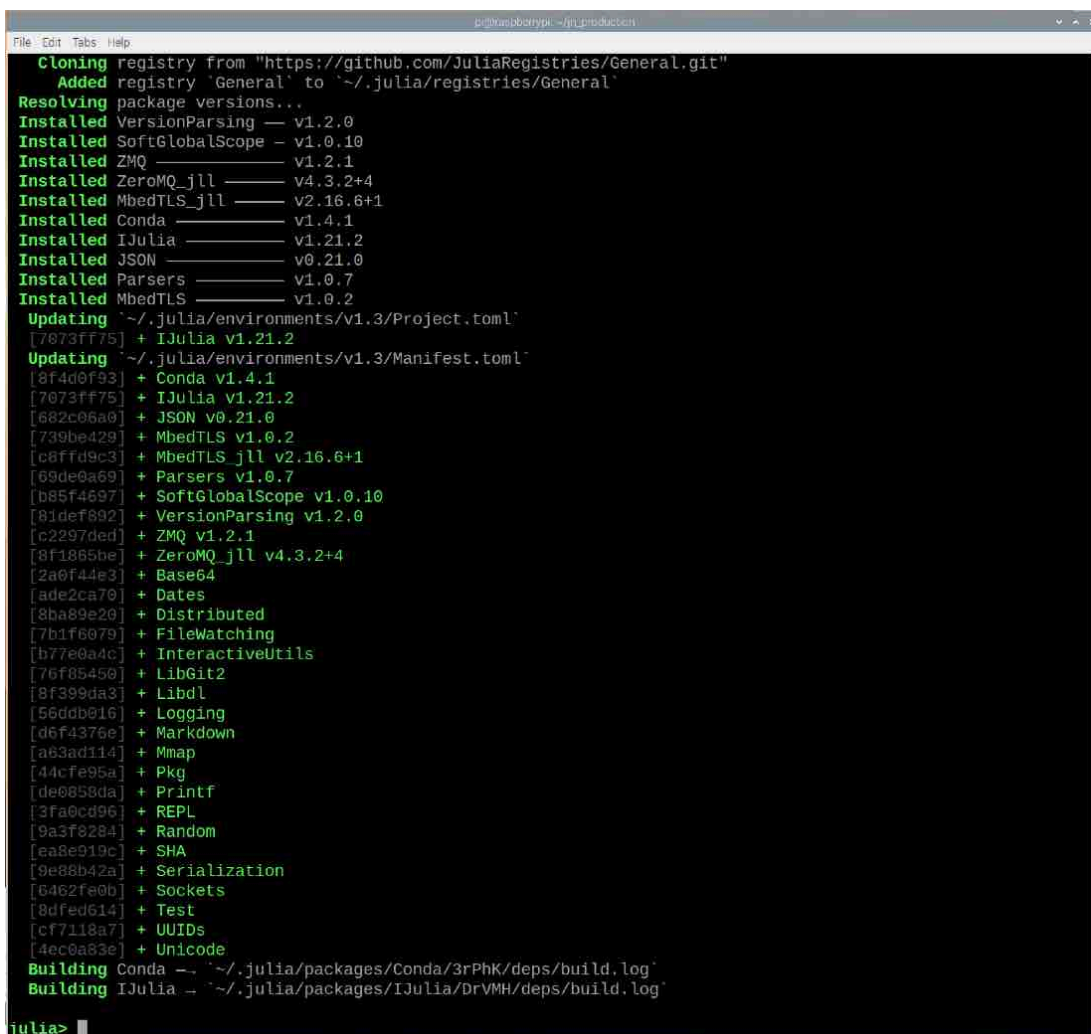
. ~/.bashrc

julia

using Pkg

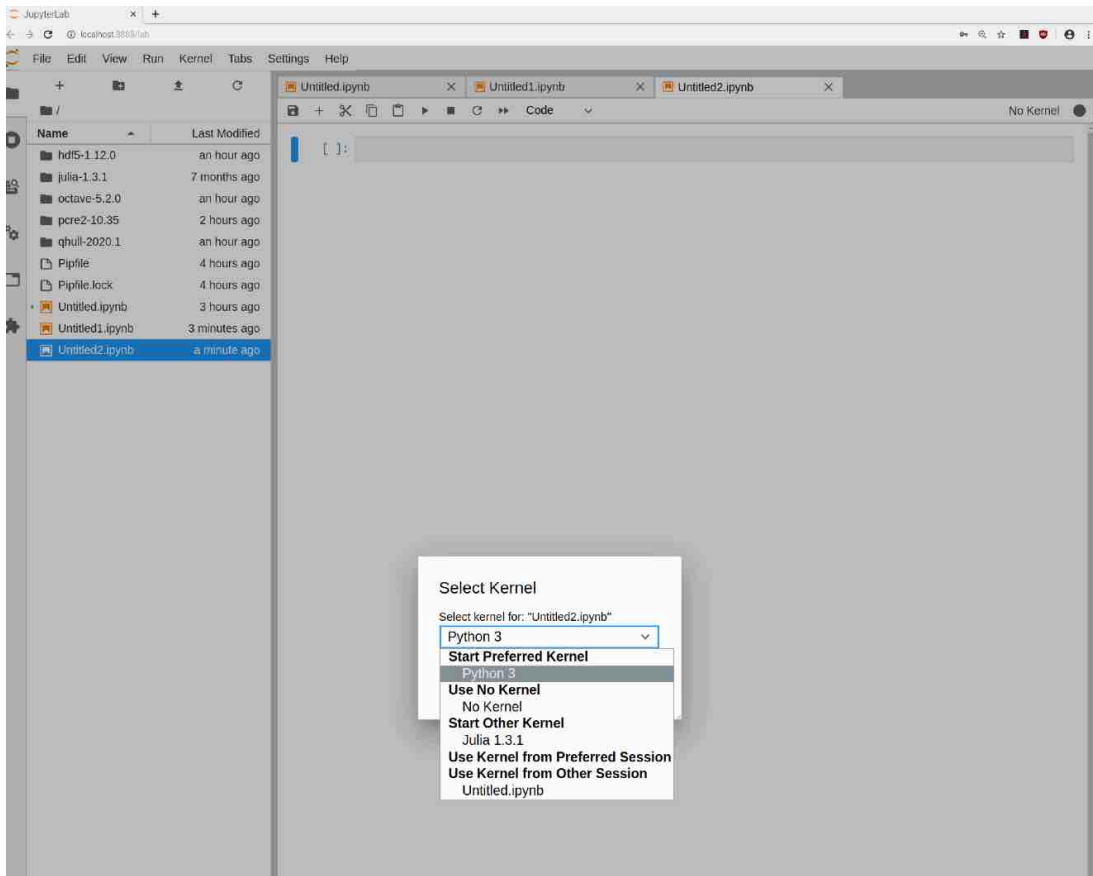
Pkg.add("IJulia")

exit()



jupyter-lab

File > New Notebook > Select Kernel shows Julia 1.3.1 option under Start Other Kernel.



To use Pluto notebooks

In Terminal

julia

Using Pkg

Pkg.add("Pluto")

import Pluto

Pluto.run(1234)

Go to <http://localhost:1234/>