ECEN 4652/5002 - Communications Lab

Peter Mathys, Spring 2017



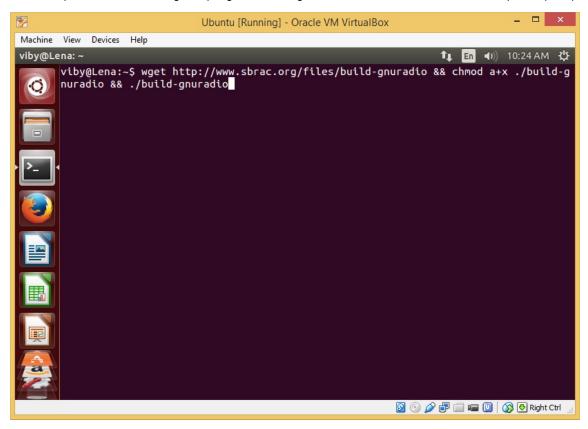




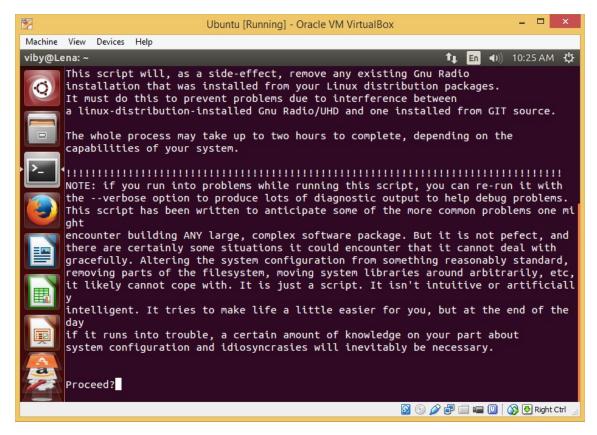
GNU Radio Installation in Ubuntu

This page describes the installation of the GNU Radio software V3.7 on Ubuntu 14.04. It is based on <u>Installing GNURadio from Source</u>, Using the build-gnuradio script section. Note that this installation takes approximately 2-3 hours, so plan accordingly.

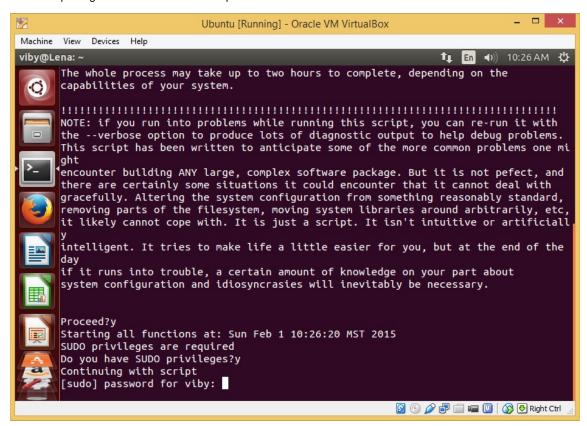
Start Ubuntu and open a terminal window. Move to the directory where you would like the source files to be stored. Type the following command to start the process of downloading, compiling, and installing the GNU Radio and the GNU Radio Companion (GRC) software



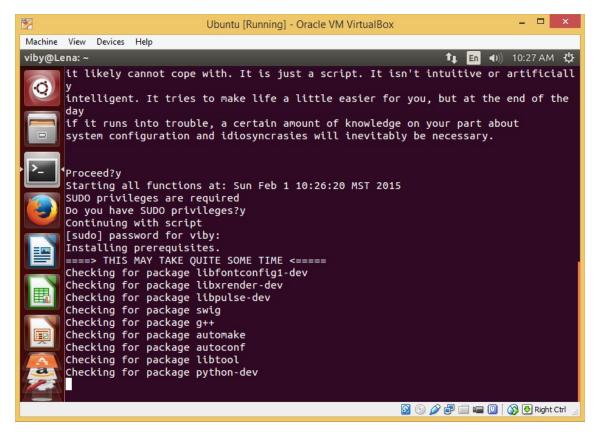
You will see the following warning screen. Enter "yes" to proceed. Note the time: 10:26:20.



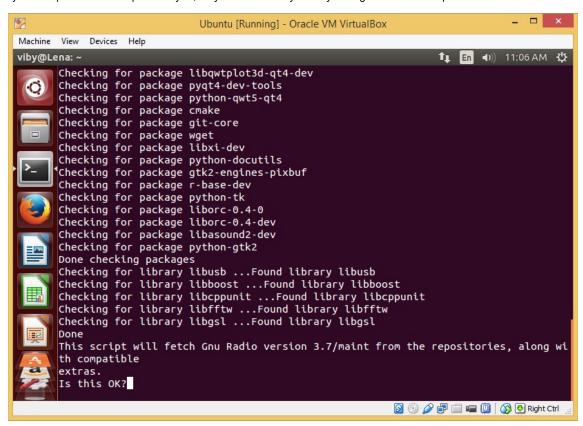
You will need SUDO privileges to continue with the script.



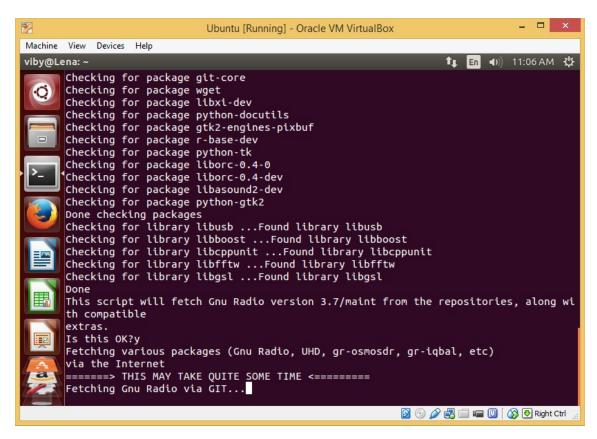
The script takes care of the most common package dependencies and installs the required packages. There will be long periods where nothing visibly happens on the screen, so be patient.



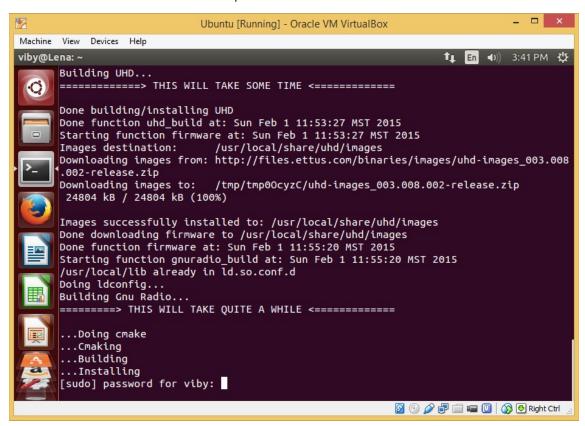
Occasionally the script will ask for input from you, so you need to stay nearby during the installation process.



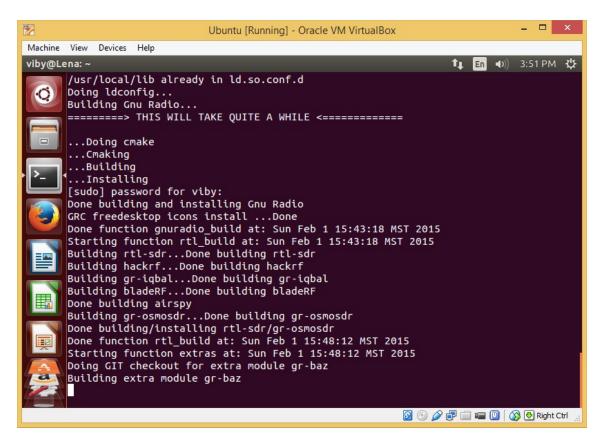
Another announcement that this "MAY TAKE QUITE SOME TIME".



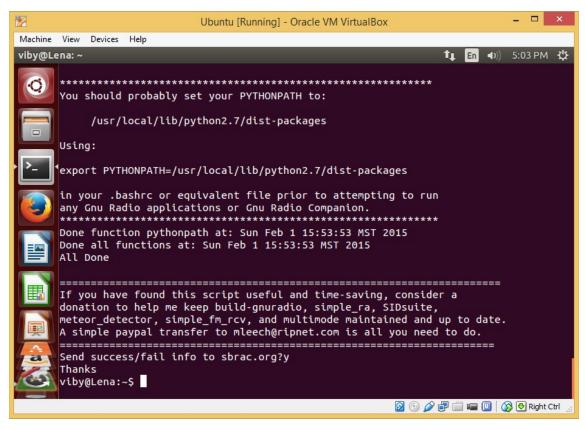
Now the main build of GNU Radio starts. Another SUDO password is needed. Note the time: 11:55:20.



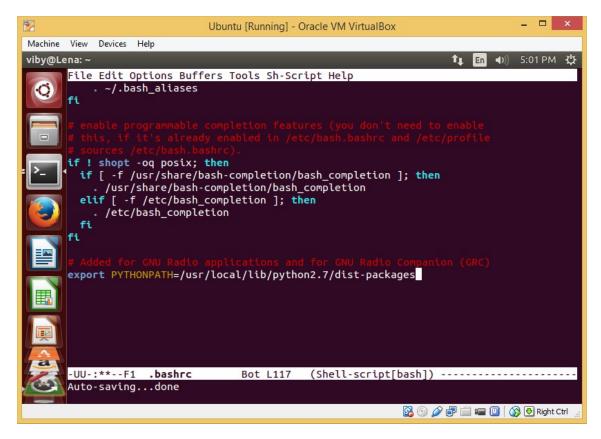
Some information that appears on the screen during the build process. Note the time 15:48:12 (I was not next to the computer at all times, so there were some times when the script waited for my input).



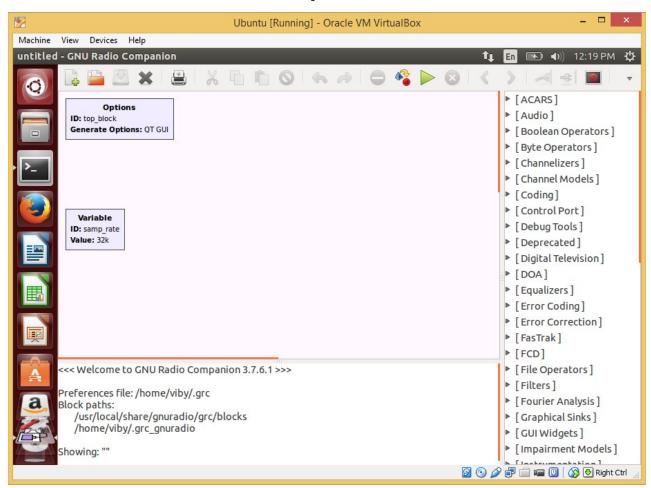
Finally successfully completed. Note the time 15:53:53 (A bit longer than the minimum because the script had to wait for my input).



The final thing to do is to add PYTHONPATH at the end of the .bashrc file. I did this using the emacs editor (install using sudo apt-get install emacs24 in a command-line terminal), but you can also use the gedit text editor (use a command-line terminal and type gedit ~/.bashrc).



To run the GNURadio Companion (GRC) which provides the graphical user interface for GNURadio, type <code>gnuradio-companion</code> in a command-line terminal. You should see a window like the following.



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