Short instructions how to install Callisto software for Linux/or Raspberry PI

1. Install cfitsio library (if needed): *sudo apt install libcfitsio-dev* (run command in terminal window)

2. Download Unix Callisto software from: http://www.metsahovi.fi/callisto/e-Callisto_for_Unix/callisto-1.1.0.tar.gz

3. Decompress and extract the contents of the distribution file in a source directory. At first, go to folder where zip file is download:
      cd ~/Downloads
   Then extract the .tar file:
      tar zxvf callisto-1.1.0.tar.gz
   Go to folder where .tar file was extracted:
      cd callisto-1.1.0

4. Generate make file:
      ./configure --prefix=/usr --sysconfdir=/etc
   Compile the source files:
      sudo make install

5. Create a folder for Callisto configuration files (/etc/callisto):
      sudo mkdir /etc
      cd /etc
      sudo mkdir callisto

6. Create Callisto configure file (callisto.cfg) and frequency configuration file (xxx.cfg)[1,2] – you can find default files from: http://www.e-callisto.org/Software/CallistoInstaller.zip

7. Put these files to "/etc/callisto"-folder

8. Create folder for output fits-files (/local/callisto/)
      sudo mkdir /local
      cd /local
      sudo mkdir callisto

      Modify folder (/local/callisto/) ownership, that files could be written there:
      sudo chown pi /local/callisto

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[1] Make sure that frequency configuration file name match with the name which is in configure file
      [frqfile]=lower_band.cfg
[2] Make sure that in callisto.cfg-file datapath and ovspath are correct
      [datapath]=/local/callisto
      [ovspath]=/local/callisto

9. If you are using RasPi (or other non-serial port computer), configure comport setup in configure file (e.g. [rxcomport]=/dev/ttyUSB0)

10. Upload the frequency file to Callisto's EPROM – This takes some time
    callisto -LC -d

11. Start the Callisto – New file fits-file should appear to /local/callisto-folder in every 15 minutes
    callisto -d

Installation was tested with Rasberry Pi400 (integrated keyboard) and Trendnet TU-S9 serial to USB converter.

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