

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](http://www.metsahovi.fi/callisto/e-Callisto%20for%20Unix/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 /etc`
`sudo mkdir callisto`
9. If you are using RasPi (or other non-serial port computer), configure comport setup in configure file (e.g. [rxcomport]=/dev/ttyUSB0)

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

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 Raspberry Pi400 (integrated keyboard) and Trendnet TU-S9 serial to USB converter.

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