

GNU/Linux Ham Radio Setups

I'm wondering what / if / how any of you are using GNU/Linux for ham radio. Here's a quick list of pages I found promising:

- <https://hamwaves.com/linux.ham/en/index.html>
- <https://sourceforge.net/projects/kb1oiq-andysham/>
- <https://launchpad.net/%7Eubuntu-hams-updates/+archive/ubuntu/ppa/+index?batch=75>

If any of you are already using GNU/Linux to run ham radio programs, please feel free to edit this page to share your experience, tips, etc. If this page grows enough, we can move it to the [How To](#) section.

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</html> <h1>General Ham Radio Applications</h1> <ul> <li><a
href="https://hamlib.github.io/">HamLib</a>&nbsp;- Ham Radio Control Libraries</li> <li><a
href="http://sourceforge.net/projects/groundstation">grig</a>&nbsp;- graphical user interface to the Ham Radio
Control Libraries</li> <li><a href="https://chirp.danplanet.com/">CHIRP</a>&nbsp;- Radio Programming
Software</li> <li><a href="http://m0iax.com/2019/09/25/aprs-message-app-for-js8call/">APRS Message App for
JS8Call</a>&nbsp;- GUI to send APRS messages via JS8Call</li> <li><a
href="https://www.svxlink.org/">QTel</a>&nbsp;- EchoLink client</li> <li><a
href="http://users.telenet.be/on4qz/index.html">QSSTV</a>&nbsp;- Slow Scan TV (e.g. "Fax")</li> <li><a
href="http://gpredict.oz9aec.net/">Gpredict</a>&nbsp;- Satellite prediction</li> <li><a
href="https://freedv.org/">FreeDV</a>&nbsp;- Free digital voice vocoder</li> <li><a
href="https://www.pa7lim.nl/bluedv/">BlueDV</a>&nbsp;- Client for D-Star and DMR</li> <li><a
href="https://github.com/8CH9azbsFifZ/WsprryPi.git">WsprryPi - WSPR software</a></li> <li><a
href="https://github.com/MalcolmRobb/dump1090">ADS-B Flight Tracking Software</a></li> <li><a
href="http://www.w1hkj.com/pi3/">Pi3/4 Stats Monitor</a>&nbsp;- by&nbsp;&nbsp;<a
href="http://www.w1hkj.com/">W1HKJ</a></li> <li><a
href="https://www.qsl.net/hz1jw/voacapl/index.html">VOACAP</a>&nbsp;- HF propagation prediction</li> <li><a
href="https://gpsd.gitlab.io/gpsd/">GPS Support</a></li> <li><a
href="https://www.raspberrypi-connect.com/projects/65-raspberrypi-hotspot-accesspoints/158-raspberry-pi-auto-wifi-
hotspot-switch-direct-connection">Auto WiFi Hotspot</a>&nbsp;- Automatically turn your Pi into a WiFi hotspot
when in the field!</li> <li><a href="https://wxtoimgrestored.xyz/beta/">wxtoimg</a>&nbsp;- NOAA weather
imaging software</li> <li><a href="http://wa0eir.bctis.info/twhamqth.html">twHamQTH</a>&nbsp;- an online
callsign look up program</li> <li><a href="http://wa0eir.bctis.info/twclock.html">twclock</a>&nbsp;- a world
clock and automatic ID for amateur radio operators</li> <li><a
href="https://www.qsl.net/dl4sdc/">acfax</a>&nbsp;- Receive faxes using your radio and sound card</li> <li><a
href="http://db0fhn.efi.fh-nuernberg.de/doku.php?id=radio:db0fhn:convers">colrconv</a>&nbsp;&nbsp;&nbsp;-&nbsp;&nbsp;&nbsp;
convers client with sound and ncurses color support</li> <li><a
href="https://github.com/maurizioandreotti/D-Rats">D-Rats 0.3.9 (by new maintainer Maurizio Andreotti)</a> - A
communication tool for D-STAR</li> <li><a href="http://www.f6fbb.org/">fbb</a>&nbsp;- Packet radio mailbox
and utilities</li> <li>gcb - Utility to calculate long and short path to a location</li> <li><a
href="https://www.qsl.net/in3otd/">glfer</a>&nbsp;- Spectrogram display and QRSS keyer</li> <li><a
href="https://github.com/N0NB/xdx">Xdx</a> is a DX-cluster client</li> <li><a
href="http://www.dxcluster.org/main/">DXSpider</a> - DX Cluster Server</li> <li><a
href="https://www.qrz.com/db/AC6SL">fccexam</a>&nbsp;- Study tool for USA FCC commercial radio license
exams.</li> <li><a href="https://github.com/rubund/gnuais/">gnuais / gnuaisgui</a>&nbsp;- GNU Automatic
Identification System receiver</li> <li><a href="https://www.qrz.com/db/AC6SL">hamexam</a>&nbsp;- Study
guide for USA FCC amateur radio (ham radio) license examinations.</li> <li><a
href="http://hamfax.sourceforge.net/">hamfax</a>&nbsp;- Qt based shortwave fax</li> <li><a
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[inspectrum](https://github.com/miek/inspectrum) - tool for visualising captured radio signals
[predict-gsat](https://github.com/kd2bd/predict/) - Graphical Predict client
[splat](http://www.qsl.net/kd2bd/splat.html) - analyze point-to-point terrestrial RF communication links
[wwl](https://www.qrz.com/db/VA3DB) - Calculates distance and azimuth between two Maidenhead locators
[AX.25](https://github.com/ve7fet/linuxax25) - Packet Radio drivers for ax.25 protocol
[linpac](https://sourceforge.net/projects/linpac) - terminal for packet radio with mail client
[PyBOMBS](https://github.com/gnuradio/pybombs) - GNU Radio install management system
[AMBEserver](https://github.com/marrold/AMBEserver) - AMBE vocoder chip support

Antenna Ham Radio Applications

[antennavis](http://www.include.gr/antennavis.html) - Antenna Visualization Software
[gsmc](https://github.com/radioteknos/gsmc.git) - A GTK Smith Chart Calculator for RF impedance matching
[nec2c](https://www.qsl.net/5b4az/) - Translation of the NEC2 FORTRAN source code to the C language
[xnecview](http://www.pa3fwm.nl/software/xnecview/) - NEC structure and gain pattern viewer
[yagiuda](https://www.dhars.org.uk/members_pages/G8WRB/) - software to analyse performance of Yagi-Uda antennas

Digital Mode Ham Radio Applications

[WSJT-X](https://physics.princeton.edu/pulsar/k1jt/wsجتx.html) - Weak Signal (FT8, FT4, etc.) by
[W1JT](https://www.qrz.com/db/K1JT)
[GridTracker](https://tagloomis.com/grid-tracker/) - Graphical mapping companion program for WSJT-X or JTDX
[JTDX](http://www.jtdx.tech/en/) - Alternate client for Weak Signal (FT8, FT4, etc.)
[JS8Call](http://js8call.com/) - Messaging built on top of FT8 protocol
[KN4CRD](https://www.qrz.com/db/kn4crd/)
[JS8CallTools](http://m0iax.com/2019/05/27/js8calltools-for-raspberry-pi/) - Get Grid coordinates using GPS (FLDigi is in its own section below.)
[gnss-sdr](https://github.com/gnss-sdr/gnss-sdr) - GLONASS satellite system Software Defined Receiver
[linpsk](http://linpsk.sourceforge.net/) - amateur radio PSK31/RTTY program via soundcard
[multimon](https://sourceforge.net/projects/multimon/) - multimon - program to decode radio transmissions
[multimon-ng](https://github.com/EliasOenal/multimon-ng) - digital radio transmission decoder
[psk31lx](http://wa0eir.bctc.info/psk31lx.html) - a terminal based ncurses program for psk31
[twpsk](http://wa0eir.bctc.info/twpsk.html) - a psk program

Software Defined Radio

[CubicSDR](https://cubicsdr.com/) - Software Defined Radio receiver
[cutesdr](https://sourceforge.net/projects/cutesdr/) - Simple demodulation and spectrum display program
[GQRX](http://gqrx.dk/) - Software defined radio receiver
[SDRAngel](https://github.com/f4exb/sdrangel) - SDR player
[lysdr](https://github.com/gordonjcp/lysdr) - Simple software-defined radio
[SoapyAudio](https://github.com/pothosware/SoapyAudio) - Soapy SDR plugin for Audio devices
[SoapyHackRF](https://github.com/pothosware/SoapyHackRF) - SoapySDR HackRF module
[SoapyMultiSDR](https://github.com/pothosware/SoapyMultiSDR) - Multi-device support module for SoapySDR
[SoapyNetSDR](https://github.com/pothosware/SoapyNetSDR) - Soapy SDR module for NetSDR protocol
[SoapyRemote](https://github.com/pothosware/SoapyRemote) - Use any Soapy SDR remotely
[SoapyRTLSDR](https://github.com/pothosware/SoapyRTLSDR) - Soapy SDR module for RTL SDR USB dongle
[SoapySDR](https://github.com/pothosware/SoapySDR) - Vendor and platform neutral SDR support library
[SoapySDRPlay](https://github.com/pothosware/SoapySDRPlay) - Soapy SDR module for SDRPlay
[RTL-SDR](https://www.rtl-sdr.com/) - Support for
[SDRPlay SDR](https://www.sdrplay.com/) - Support for
[HackRF SDR](https://greatscottgadgets.com/hackrf/) - Support for

href="https://github.com/airspy/airspyone_host">AirSpy and AirSpy HF SoapySDRAirSpy- Soapy SDR module for AirSpy SDR SoapySDRFUNCube Dongle Pro+- Soapy SDR module for FUNCube Dongle Pro+ SoapySDRPlutoSDR- Soapy SDR module for Pluto SDR SoapySDROsmoSDR- Soapy SDR module for Osmo SDR SoapySDRRedPitaya- Soapy SDR module for Red Pitaya SDR SoapyUHD- Soapy SDR module for Ettus ResearchUHD SDR SoapySDRVOLKConverters - Support for VOLK-based type converters <h1>APRS Applications</h1> Xastir - APRS GUI client / Digipeater / lgate YAAC - Yet Another APRS Client DireWolf - Software "soundcard" AX.25 packet modem/TNC and APRS encoder/decoder aprsdigi - digipeater for APRS aprx - APRS Digipeater and iGate soundmodem - Sound Card Amateur Packet Radio Modems <h1>FLDigi Application Suite from</h1>W1HKJ</h1> flrig - Rig Control program which interfaces with fldigi fldigi - Digital Modes Communications flaa - RigExpert Antenna Analyzer Control Program flamp - File transmissions via Amateur Multicast Protocol flarq - ARQ data transfer utility for fldigi flcluster - Telnet client to remote DX Cluster Servers fllog - Logbook application which can use same data file as fldigi flmsg - Editor for ICS 213 Forms flnet - Net Control Assistant for Net Activities (Check-In Application) flpost - NBEMs post office flwrap - File encapsulation and compression for transmission over amateur radio flwkey - Winkeyer (or clone) control program for K1EL Winkeyer series <h1>Logging Applications</h1> TrustedQSL - LotW client CQRlog - Ham Radio Logging Application PyQSO - Logging software (written in Python) klog - The Ham Radio Logging program tlf - console based ham radio contest logger tucnak2 - VHF/UHF/SHF Hamradio contest log version 2 twlog - basic logging program for ham radio upload_adif_log – Upload only new log entries to LotW, eQSL.cc and ClubLog wsjsx_to_n3fjp - Logging adapter to allow WSJT-X to log to N3FJP xlog - GTK+ Logging program for Hamradio Operators <h1>WinLink Applications</h1> Pat WinLink - WinLink for Raspberry Pi (and other platforms) ARDOP -support for Pat WinLink ARDOP-GUI - Provides graphical representation of ARDOP connections Find ARDOP - Retrieves local ARDOP sources by KM4ACK Pat Menu 2 – Menu for Pat by KM4ACK PMON - a PACTOR® Monitoring Utility for Linux <h1>Morse Code Applications</h1> aldo - Morse code training program cw - sound characters as Morse code on the soundcard or console speaker cwcp - Text based Morse tutor program xcwcp - Graphical Morse tutor program cwdaemon - morse daemon for the serial or parallel port ebook2cw - convert ebooks to Morse MP3s/OGGs ebook2cwgui - GUI for ebook2cw morse - training program about morse-code for aspiring radio hams morse2ascii - tool for decoding the morse codes from a PCM WAV file morsegen - convert file to ASCII morse code qrq - High speed Morse telegraphy trainer xdemorse - decode Morse signals to text </html>