Instructions for Direwolf decoding of CubicSDR APRS and Serenity signals
Works for both radiopi and ARISS Radio Pi images
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Full instructions are at: https://github.com/alanbjohnston/CubeSatSim/wiki/Serenity

To configure, open a Terminal window (black window icon in top left) and enter these commands.

First uninstall pulseaudio if present:

sudo apt-get remove -y pulseaudio

sudo reboot now

After the Pi reboots, open a terminal window (a black window) and type:

cd

If you are starting with the ARISS Radio Pi image, you can skip this next step as the CubeSatSim software is already installed.

git clone http://github.com/alanbjohnston/CubeSatSim.git

cd CubeSatSim

git pull

git checkout FIAB-v3

You are now ready to run the scripts. The packet.sh script fully automates the decoding. You will hear the decoded signals on the speaker (there is no squelch, so it is a bit noisy). Just type:

groundstation/packet.sh

To quit, close the window or type Control-C a few times.

This script runs CubicSDR and tells you how to load a session file in CubicSDR to configure and tune CubicSDR. You won't hear anything, but you can see the waterfall and change frequency and gain settings:

groundstation/cubicsdr-packet.sh

For more information, see https://github.com/alanbjohnston/CubeSatSim/wiki/Serenity