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pi@ZIL-Kiwi:~/wsprdaemon $ ./wsprdaemon.sh -h
                     VERSION = 2.9d
usage:
    /home/pi/wsprdaemon/wsprdaemon.sh -[asz} Start,Show Status, or Stop the watchdog daemon
    This program reads the configuration file wsprdaemon.conf which defines a schedule to capture and post WSPR signals from one or more KiwiSDRs
     and/or AUDIO inputs and/or RTL-SDRs.
     Each KiwiSDR can be configured to run 8 separate bands, so 2 Kiwis can spot every 2 minute cycle from all 14 LF/MF/HF bands.
     In addition, the operator can configure 'MERG ..' receivers which posts decodes from 2 or more 'real' receivers
     but selects only the best SNR for each received callsign (i.e no double-posting)
     Each 2 minute WSPR cycle this script creates a separate .wav recording file on this host from the audio output of each configured [receiver, band]
     At the end of each cycle, each of those files is processed by the 'wsprd' WSPR decode application included in the WSJT-x application
     which must be installed on this server. The decodes output by 'wsprd' are then spotted to the WSPRnet.org database.
    The script allows individual [receiver,band] control as well as automatic scheduled band control via a watchdog process
     which is automatically started during the server's bootup process.
                                  => print this help message (execute '-vh' to get a description of the architecture of this program)
    -h
                                  => stArt watchdog daemon which will start all scheduled jobs ( -w a )
    -a
                                  => stop watchdog daemon and all jobs it is currently running (-w z ) (i.e.zzzz => go to sleep)
    -z
                                  => show Status of watchdog and jobs it is currently running (-w s : -i s )
    -s
                                  => generate ~/wsprdaemon/signal-levels.jpg for the last HOURS of SNR data
    -p HOURS
    These flags are mostly intended for advanced configuration:
    -i
                                  => list audio and RTL-SDR devices attached to this computer
                                  => Start, Stop and Monitor one or more WSPR jobs. Each job is composed of one capture daemon and one decode/posting
    -j .....
daemon
    -j a,RECEIVER NAME[,WSPR BAND]
                                      => stArt WSPR jobs(s).
                                                                         RECEIVER NAME = 'all' (default) == All RECEIVER, BAND jobs defined in
wsprdaemon.conf
                                                                0R
                                                                         RECEIVER NAME from list below
                                                                     AND WSPR BAND from list below
    -j z,RECEIVER_NAME[,WSPR_BAND]
                                      => Stop (i.e zzzzz) WSPR job(s). RECEIVER_NAME defaults to 'all'
    -j s,RECEIVER NAME[,WSPR BAND]
                                      => Show Status of WSPR iob(s).
                                      => Watch end of the decode/posting.log file. RECEIVER ANME = 'all' is not valid
    -i l,RECEIVER NAME[,WSPR BAND]
    -j o
                                  => Search for zombie jobs (i.e. not in current scheduled jobs list) and kill them
                                  => Start, Stop and Monitor the Watchdog daemon
    -w .....
                                  => stArt the watchdog daemon
    −w a
                                  => Stop (i.e put to sleep == zzzzz) the watchdog daemon
    -W 7
                                  => Show Status of watchdog daemon
    -w s
   -w l
                                  => Watch end of watchdog.log file by executing 'less +F watchdog.log'
    -v
                                  => Increase verbosity of diagnotic printouts
    -d
                                  => Signal all running processes as found in the *.pid files in the current directory to increment the logging verbosity
                                     This permits changes to logging verbosity without restarting WD
    -D
                                  => Signal all to decrement verbosity
                                  => Runs on wsprdaemon.org to process uploaded *.tbz files. CMD: 'a' => start, s => 'status', 'z' => stop
    -u CMD
    Examples:
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=> stArt the watchdog daemon which will in turn run '-i a.all' starting WSPR jobs defined in

wsprdaemon.sh -a

Valid RECEIVER_NAMEs which have been defined in '/home/pi/wsprdaemon/wsprdaemon.conf':

Index	Recievers Name	IP:PORT
0	G3ZIL_1	10.0.1.89:8073
1	G3ZIL_2	10.0.1.102:8073
2	KPH	kphsdr.com:8075
3	N6GN2	n6gn.no-ip.org:8075
4	N6GN	n6gn.no-ip.org:8073
5	MERGED RX 0	G3ZIL HF,AUDIO 0

WSPR_BAND => {2200|630|160|80|80eu|60|60eu|40|30|20|17|15|12|10|6|2|1|0}

Author Rob Robinett AI6VN rob@robinett.us with much help from John Seamons and a group of beta testers I would appreciate reports which compare the number of reports and the SNR values reported by wsprdaemon.sh against values reported by the same Kiwi's autowspr and/or that same Kiwi fed to WSJT-x In my testing wsprdaemon.sh always reports the same or more signals and the same SNR for those detected by autowspr, but I cannot yet guarantee that wsprdaemon.sh is always better than those other reporting methods.