mwp on Cygwin

From 2015-12-30, it is possible to build and run pretty much all of the mwptools suite in cygwin. It is the best performing Windows option.

- Runs from a desktop short cut

- Audio works

- Easy device names translation

Installation

- Install the required packages. The file `cygwin-example-packages.txt.gz` is taken from a cygwin installation that is capable of building and running mwp. Note that while this seems like a large list, many of the items are automagically installed as dependencies of other items.

- At run time, you need to have started the a X server (VcXsrv recommended)

- Serial devices must be prefixed /dev/, e.g. `COM7:` => `/dev/ttyS7`

Once the dependencies are installed, mwp is easily build from the cygwin shell:

- Clone the repository

- `make && make install`

Automation hints

It's quite easy to install the dependencies as follows:

- Install the base cygwin package using the graphical installer from cygwin.

- Install a few (additional) packages `git`, `wget` and `gzip`.

- Open the cygwin terminal

- Fetch and make executable the `apt-cyg` script `wget https://rawgit.com/transcode-open/apt-cyg/master/apt-cyg install apt-cyg /bin`

- Clone the mwp repsoitory

  ```
  git clone --depth 1 https://github.com/stronnag/mwptools
  ```

- Install all the dependencies in one hit:

  ```
  apt-cyg install $(zcat mwptools/docs/cygwin-example-packages.txt.gz)
  ```

- Build mwp

```
cd mwptools
make && make install # no sudo in cygwin
```
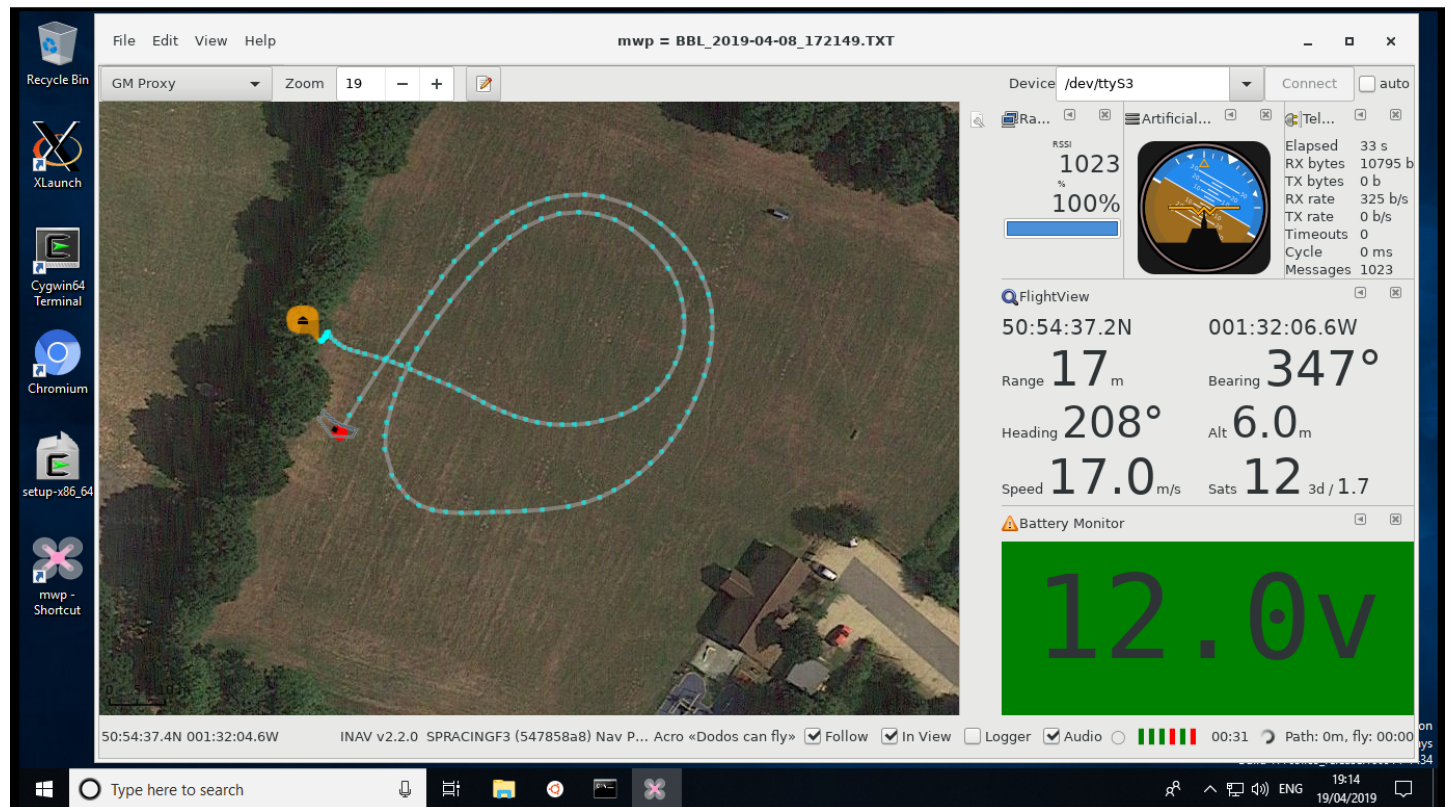
Runtime

It's convenient to set the following in `.bashrc`

```
export DISPLAY=:0
export NO_AT_BRIDGE=1
export LIBGL_ALWAYS_INDIRECT=Y
```

The X server (VcXsrv) must be running, it may be convenient to start this automatically from the Windows Startup directory.

A Windows batch file is provided that may be used as a desktop shortcut `docs/mwp.bat`

A Windows icon is provided (`common/mwp_icon.ico`)

No support is offered for running under cygwin.