fl2xui

Flightlog2kml GUI tool

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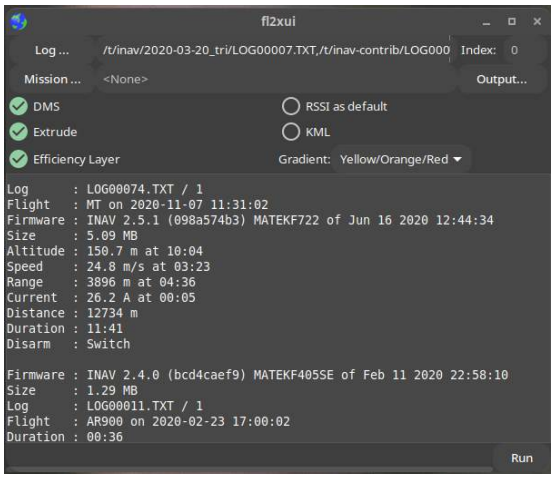
1.1 Overview

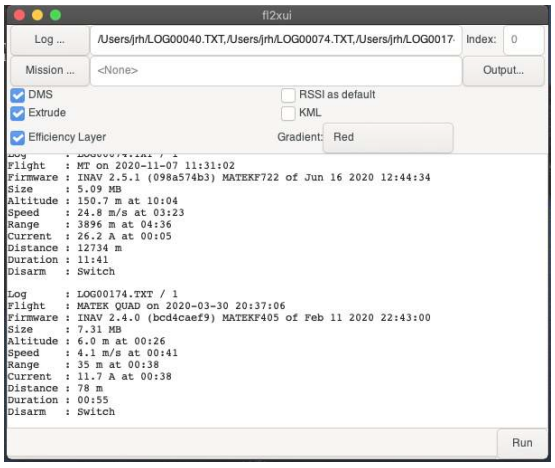
fl2xui is a cross-platform GUI for the flightlog2kml tool that converts (inav) flight logs to beautiful, annotated KML or KMZ files for visualisation in Google Earth.

fl2xui provides a consistent user interface across Linux, FreeBSD, MacOS and Windows.

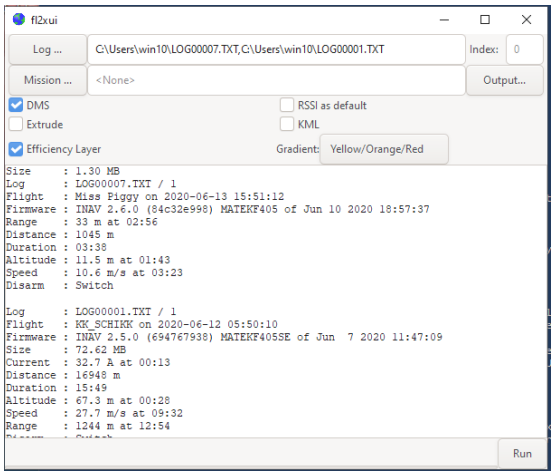
1.1.1 Linux (dark theme)



1.1.2 MacOS



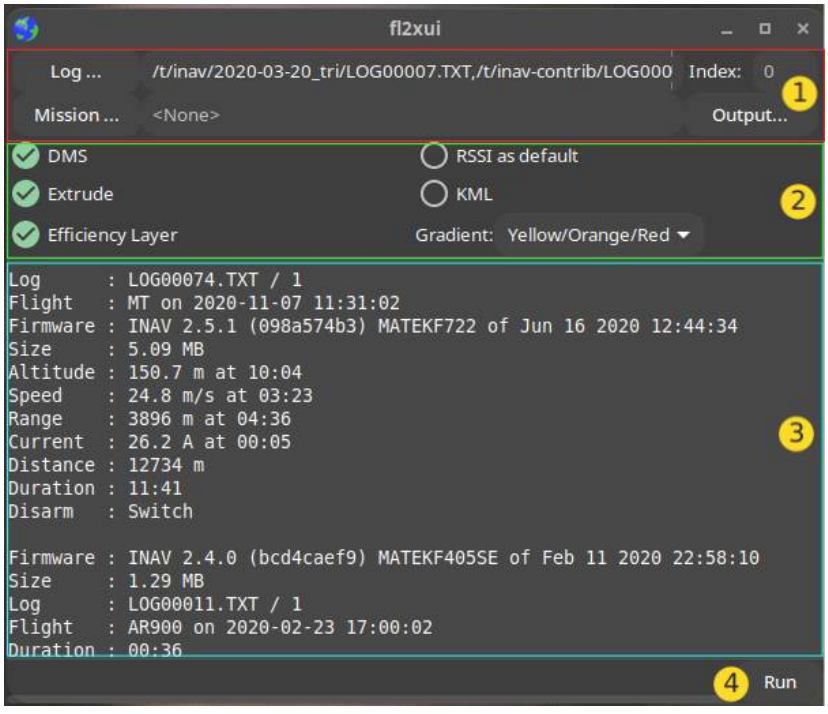
1.1.3 Windows



1.1.4 Features

- Multiple logs (Blackbox, OTX/ETX CSV)
- Summary information
- Easy access to common visualisation options.

1.2 User Interface



1.2.1 File / index selection area (1)

- **Log...** : Opens a file chooser to select log files. Multiple files may be selected. The files may be a combination of Blackbox logs or OpenTX / EdgeTX CSV logs.

- **Output...** : Opens a file chooser to select the output directory. The defaults (no selection) are:
  - Linux, FreeBSD, MacOS : Current (working) directory, typically `$HOME` when launched from a desktop environment.
  - Windows : "Documents" (e.g. `C:\Users\USERNAME\Documents`).
- **Mission...** : Optional mission file (single selection). MW XML format (e.g. from mwp or inav configurator.
- **Index** : If 0 (default), processes all logs in (each) file; if non zero, processes a single log at the specified index.

1.2.2 Visualisation Options (2)

> **Drag and drop**
>
> On Linux / FreeBSD, you can also drag and drop logs and mission files into this area, at least with the Gnome desktop environment.

- **DMS** : Display positions as degrees / minutes / seconds (`DD:MM:SS.sss`) vice decimal degress (`DD.dddddd`).
- **Extrude** : Extrude flight points the ground.
- **Efficiency Layer** : Include an efficiency layer in the output.
- **RSSI as default** : Set the RSSI layer as the default (vice Flight Mode).
- **KML** : Generate uncompressed KML (vice compressed KMZ).
- **Gradient** : Select the colour gradient for RSSI / Efficiency layer)
  - **Red** - shades of red
  - **Green / Red** - Green (best) to red (worst)
  - **Yellow / Orange / Red** - Yellow (best) to red (worst) via orange

1.2.3 Output Area (3)

- Output Area : Scrolled window showing process or error messages.

1.2.4 Progress bar and Run button (4)

- Run button is enabled when log files have been selected
- An oscillating progress bar is displayed when a conversion is in process (after clicking "Run").

1.3 Defaults

The defaults for run time options are taken from the flightlog2kml configuration file: * **POSIX OS** : ~/.config/fl2x/config.json * **Windows** : %APPDATA%\fl2x\config.json

See also flight2kml wiki example.

1.4 Installation

1.4.1 Linux, FreeBSD

- Common GTK packages
- Debian package `*.deb` for Debian / Ubuntu and derivatives in fl2xui release area.
- Easily built from source

```
# Once (setup)
meson build --buildtype=release --strip --prefix=~/.local
# Build and install to ~/.local/bin (add to PATH if necessary)
# or specify some other PATH element (/usr/bin, /usr/local/bin, ~/bin)
meson install -C build
```


1.4.2 Windows

- Win64 Installer file in the fl2xui release area, creates a desktop shortcut launcher.
- Win64 Zip file in the fl2xui release area, provided with shortcut launcher.
- Can be built from source using Msys2 (as Linux).
- It is recommended that `blackbox_decode` and `flightlog2kml` are in the `fl2xui\bin` directory (as in the release archive).

1.4.3 MacOS

- Homebrew or similar environment is required to build from source (as Linux).

1.5 Author and Licence