

quickstream

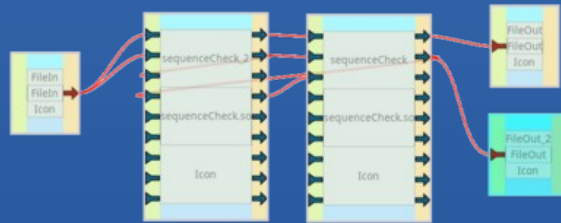


flow graph framework

What is quickstream?

- flow graph API library

- blocks



- quickstream command-line

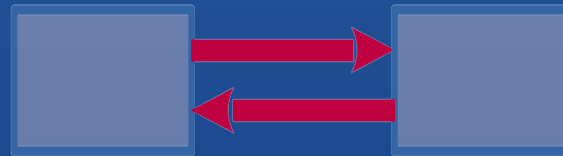
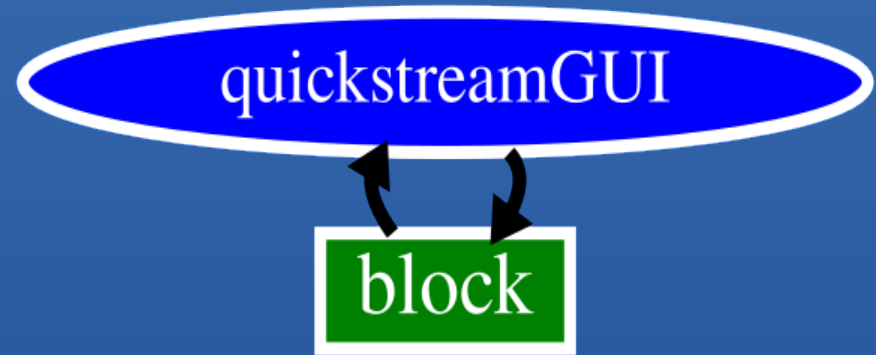
- quickstreamGUI

- in C

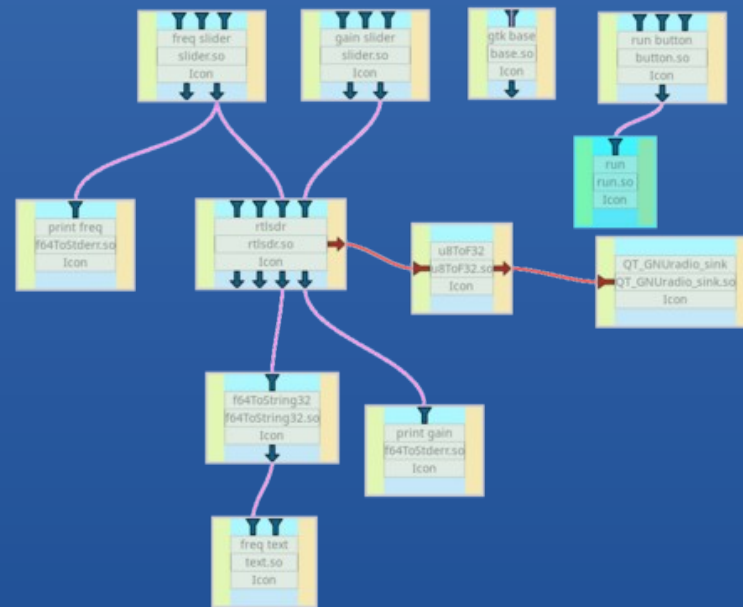
```
lance@herbie:~/q/quickstream
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User: quickstream OPTIONS
Build and run a quickstream flow graph.
What block modules to run with are given in command-line options. This
program takes action after each command-line argument is parsed, so the
order of command-line arguments is very important. A connect option,
--connects, before you load any blocks will have no good effect.
This program executes code after parsing each command line option in
the order that the options are given.
It was found that the number of argument options needed to construct a
large graph with many blocks and connects between them can very easily
exceed the capacities of a shell command line buffer, so we provide a
simple command interpreter mode which just mirrors all the command line
options. We currently have no interest in developing a full flow
interpreter. We only want a simple command line program and not burden
users with yet another configuration file, be it Vim or PKL. If
configuration files become wanted by the user community such development
should be developed in parallel and will not drive the core development.
The architecture of this software is not driven by secondary
languages, or else we'll lose the ability to simply extend the software.
All command line options require a preceding option flag. All
command line options with no arguments may be given in any of two forms.
The two argument option forms below are equivalent:
-d
--display
--display is not a valid option.
All command line options with arguments may be given in any of three
forms. The three option examples below are equivalent:
-b stdin
--block stdin
--blockstdin
--block stdin and --blockstdin are not valid option arguments.
-----
OPTIONS
--add-metadata -M KEY PK KEY ARGV [ARGV...] PK Add metadata to be stored
in the next super block that is generated via option
--save-block or --save.
The argument PK may be any string without a space that
serves to delimit the start and the end of the argument
strings to be saved in the metadata in the super block.
KEY can be used to access the metadata.
--block -b FILENAME [NAME] Load block module with filename FILENAME.
An independent instance of the block will be created
for each line any block is loaded. For example:
```

quickstream features

- write blocks with just C (or C++)
- workflow is cyclic
- assign threads to blocks on the fly
- pass-through stream buffers
- flow graphs with loops



quickstreamGUI demo



Questions



<https://github.com/lanceman2/quickstream>