Meet the Cat: A Quick Introduction to Purr Data

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Purr Data a.k.a. Pd-I2ork 2.0 is an improved version of Miller Puckette's Pd. The purpose of this document is to provide new or prospective Purr Data users with a gentle introduction to the program and some helpful information to get started. It also includes some background information to explain Purr Data's role in the Pd ecosystem and how it came about.

What is Purr Data?

Purr Data is the latest (2.0) version of Ivica Ico Bukvic's Pd-I2ork. Pd-I2ork in turn is a fork of Hans-Christoph Steiner's Pd-extended, which has been the longest-running (and arguably the most popular) variant of Miller Puckette's Pd. Pd a.k.a. Pure Data, the common basis of all these variants, is Miller Puckette's interactive and graphical computer music and multimedia environment. Pd is also the premier open-source alternative to Cycling74's well-known commercial Max program (whose original version was also developed by Miller Puckette when he was at IRCAM in the 1980s). There are a few other popular real-time applications in the realm of computer music and media art, most notably Csound and SuperCollider. However, what makes Max and Pd special is that you work in a graphical "patching" environment which allows you to put together complex signal processing applications in an intuitive way without having to learn a "real" programming language.

Puckette's version of the program is often jokingly referred to as "vanilla" Pd, because it comes without any extras and thus provides the purest taste of Pd, you might say. In keeping with this metaphor, the other Pd variants are often called its different flavors.

While vanilla Pd, being the reference implementation, remains critically important for the development of Pd's real-time engine, its Tcl/Tk-based graphical user interface has never been very pretty or convenient. Consequently there have been various efforts by the community to improve Pd's user interface in various ways. Pd-extended is the earliest and the longest-running of these, which also includes a fairly complete selection of 3rd party add-ons. However, its development has stopped in 2013 due to lack of contributions, and thus it receives no more bugfixes and updates of the real-time engine.

Ico Bukvic introduced **Pd-I2ork** in 2010 as a fork of Pd-extended to be used by the "Linux Laptop Orchestra" (L2Ork) he founded at the School of Performing Arts at Virginia Tech. Although the original motivation was to create an improved version of Pd-extended to be used by the L2Ork (hence the name) as well as in education, on Linux it quickly became a more up-to-date alternative to Pd-extended offering a fair number of additional bug fixes and GUI improvements. This is mainly due to its more nimble development model which allows bugs to be fixed quickly even if this may have an impact on backwards compatibility. Vanilla Pd, on the other hand, necessarily has a much firmer outlook on backwards compatibility, since it is expected to run even the oldest of patches.

Despite the many and substantial improvements it offers, Pd-l2ork's GUI is still based on Tcl/Tk. This is both good and bad. The major advantage is compatibility with vanilla Pd. On the other hand, Tcl/Tk looks and feels outdated, even when going to some lengths with theming, as Pd-l2ork does. Tcl is a rather basic programming language, and its libraries have been falling behind, making it hard to integrate the latest GUI, multimedia and web technologies. But most importantly, Pd-l2ork's adoption was seriously hampered by the fact that in order to implement some of the graphical improvements it relies on Tcl/Tk extensions which are not available on non-Linux platforms, which means that it wouldn't run on Windows or the Mac without substantial effort.

In 2015 Jonathan Wilkes stepped in and started creating **Purr Data** to address these problems. In a nutshell, Purr Data is Pd-I2ork with the TcI/Tk GUI part ripped out and replaced with modern web technology. It uses nw.js a.k.a. "node-webkit", which is essentially a stand-alone web browser engine (Chromium) combined with a JavaScript runtime (Node.js). All components are open-source, and nw.js has the advantage of being cross-platform, so that Purr Data also runs on Mac and Windows systems. It also makes it possible to leverage standard web technologies such as JavaScript and HTML5 which are much more widespread and have better support than TcI/Tk these days.

Consequently, Purr Data's GUI is written entirely in JavaScript. Patches are implemented as SVG documents which are generally much more responsive and offer better graphical capabilities than Tk windows. They can also be themed using CSS and zoomed like any browser window, improving usability. These features alone make the switch to Purr Data worthwhile. Purr Data also looks better and is easier on the eyes than Pd-I2ork, let alone vanilla Pd, especially on high-dpi displays (cf. Fig. 1).

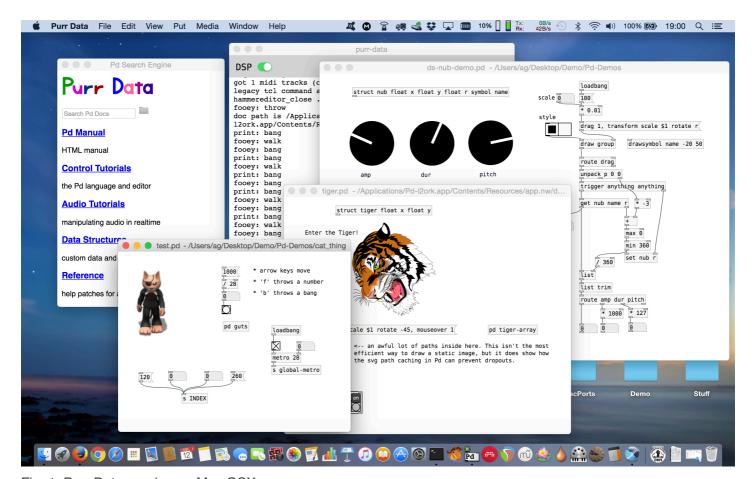


Fig. 1: Purr Data running on Mac OSX.

Purr Data's nw.js GUI also has some disadvantages. Most notably, some of the included externals still rely on Tcl code, so their GUI features will not work in Purr Data until they get ported to the new GUI. Second, the size of the binary packages is considerably larger than with Pd-I2ork or Pd-extended since, in order to make the packages self-

contained, they also include the full nw.js binary distribution. Finally, the browser engine has a much higher memory footprint than Tcl/Tk which might be an issue on embedded platforms with *very* tight memory contraints. So you'll have to weigh the advantages against the disadvantages, considering your use case and target platform.

Purr Data is still comparatively young, but its basis is the tried and proven Pd-l2ork, the present release has been thoroughly tested and many bugs have been ironed out, so it is certainly ready for day-to-day use. It also offers some really compelling advancements over its predecessors. If you have been looking for a modern and actively-maintained successor of Pd-extended, this is it.

The Name?

Purr Data is the official nickname of the Pd-I2ork 2.x branch. To quote chief developer Jonathan Wilkes from his initial announcement on the Pd forum:

I've nicknamed it "Purr Data", because cats.



Quite obviously the name is a play on "Pure Data" on which "Purr Data" is ultimately based. It also raises positive connotations of soothing purring sounds, and makes for a nice logo.

We also refer to Bukvic's original Pd-I2ork version as Pd-I2ork 1.0 or "classic" Pd-I2ork. Note that Purr Data still clearly shows its Pd-I2ork heritage. It shares a lot of code with Pd-I2ork (essentially all the non-GUI parts), and the executable, library directory etc. are all still named pd-I2ork as well.

Where to Get It

Jonathan Wilkes maintains the Purr Data sources in GitLab at https://git.purrdata.net/jwilkes/purr-data. The latest packages for Linux (Debian, Raspbian, Ubuntu), OSX and Windows are available at https://git.purrdata.net/jwilkes/purr-data-binaries/tree/master.

At JGU we also maintain a collection of Linux packages for Arch Linux (via the Arch User Repositories a.k.a. AUR) and Ubuntu 14.04/16.04 (via Launchpad). More information about these can be found at http://l2orkaur.bitbucket.org/ (Arch) and http://l2orkaur.bitbucket.org/ (Arch) and http://l2orkubuntu.bitbucket.org/ (Ubuntu). Besides Purr Data, these repositories also contain the "classic" Pd-l2ork (Ico Bukvic's 1.0 version), as well as two additional programming extensions for Pd which enable you to run Faust and Pure externals in Pd-l2ork and Purr Data. The JGU packages also offer the advantage that they let you install both classic Pd-l2ork and Purr Data on the same system.

Because of the large number of included externals, Purr Data's build process is rather involved, requires a lot of 3rd party dependencies, and takes quite a while even on modern high-end hardware. Therefore, unless your system isn't officially supported or you have specific requirements forcing you to compile from source, we recommend using the available binaries.

Getting Started

Once you've installed Purr Data, you can launch it from the desktop environment as usual. On Linux, you can just run pd-l2ork from the command line, or look in your desktop environment's program menu or launcher for the Pd-l2ork entry and click on that. (If you installed Purr Data from one of the JGU packages, use the purr-data command or the Purr-Data desktop icon instead.)

On Mac OSX and Windows, double-click on the application icon (normally to be found in the application or program folder, depending on how you installed it).

You can also just double-click on a patch file to have it open in Purr Data. However, this will usually require a first-time setup to tell the file manager that the Pd file type should be opened using the Purr Data application.

In any case, Purr Data should then open its main "console" window which logs all messages from the program. If you double-clicked a patch file, it will be shown in a separate "canvas" window.

Purr Data understands basically the same set of command line options as vanilla Pd or Pd-I2ork. On Linux, you can find out about these by running pd-I2ork -help (purr-data -help when using the JGU packages) from the command line. (Right now this isn't easy to do on Mac and Windows, since you'll have to locate the program executable in the application folder.) Some common options which can be placed into the startup flags are -path and -lib, see section "GUI and Startup Options" below.

Single Application Instance

Unlike vanilla Pd, Purr Data always runs as a *single application instance*. If you load additional patch files (by invoking the pd-l2ork executable or by clicking patch files in the file manager), they will be opened as new canvas windows in that single unique instance. This prevents the kind of confusion which often arises with vanilla Pd if you accidentally open different patches in different instances of the application. Pd's built-in messaging system (send/receive) and the internal clipboard requires that patches are loaded in the same program instance, and Purr Data makes sure that this is always the case. (This also means that Purr Data's real-time processing is all done in a single process right now. In the future, it will also become possible to run different patches on different instances of the real-time engine in order to take advantage of the multi-processing capabilities on modern multi-core systems, but this hasn't been implemented yet.)

Configuration

When you launch Purr Data for the first time, most likely you will have to configure some things, such as the audio and MIDI devices that you want to use. Like Pd-I2ork, Purr Data provides a central "Preferences" dialog which lets you do this in a convenient way.

Audio and MIDI Devices

The following screenshot (Fig. 2) shows how the "Audio" and "MIDI" tabs in this dialog look like on the Mac. For most purposes it should be sufficient to just select the audio and MIDI inputs and outputs that you want to use from the corresponding dropdown lists. Pressing the Apply button applies the settings *without* closing the dialog or saving the options permanently. If you want to make your changes permanent, you must use the Ok button instead. This also closes the dialog.

You can redo this procedure at any time if needed. Note that it is usually possible to select multiple input and output devices, but this depends on the platform and the selected audio/MIDI back-end or "API". Also note that on Linux (using the ALSA API), the MIDI tab will only allow you to set the number of ALSA MIDI input/output ports to be created; you then still have to use a MIDI patchbay program such as qjacket to connect these ports to the hardware devices as needed.

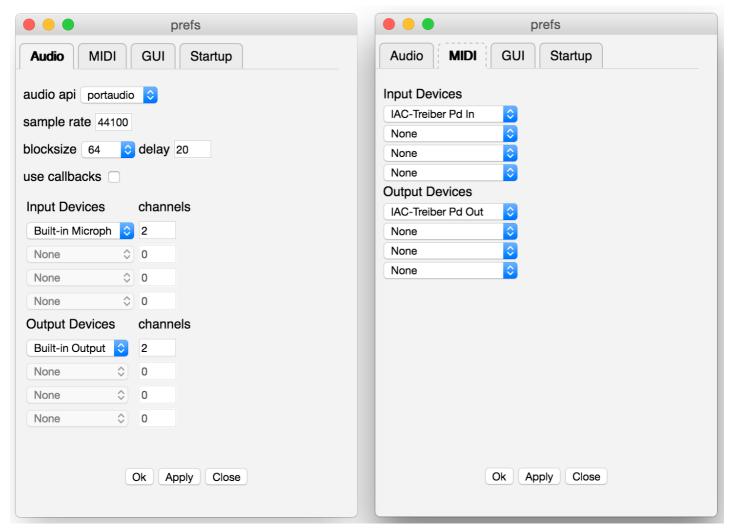


Fig. 2: Audio and MIDI setup.

One pitfall of the Pd engine is that it does not rescan the devices if you connect new external audio or MIDI gear while Purr Data is already running. Thus you need to relaunch the program to make the new devices show up in the preferences. In the case of MIDI, it is easy to work around this limitation by employing virtual MIDI devices, which ALSA MIDI does by default. On the Mac you'd use the IAC devices, on Windows a MIDI loopback driver such as loopMIDI for that purpose. You then wire these up to the MIDI hardware using a separate patchbay program. A similar approach is possible with audio loopback software such as Jack.

GUI and Startup Options

The GUI theme can be selected on the "GUI" tab (see Fig. 3, left). The changes will be applied immediately. Purr Data provides various different GUI themes out of the box. Note that the GUI themes are in fact just CSS files in Purr Data's library directory, so if you're familiar with HTML5 and CSS then you can easily change them or create your own.

Another useful option on the GUI tab is "save/load zoom level with patch". Purr Data can zoom any patch window to 16 different levels, and this option, when enabled, allows you to store the current zoom level when a patch is saved, and then later restore the zoom level when the patch gets reloaded.

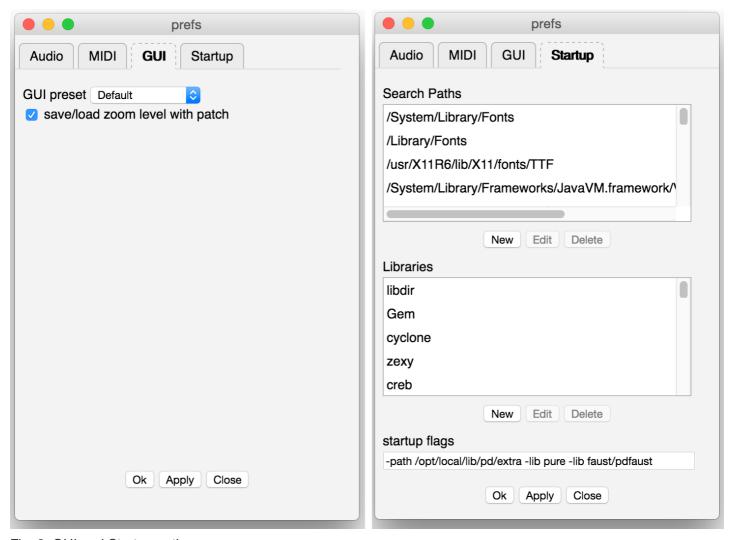


Fig. 3: GUI and Startup options.

The final tab in the preferences dialog is the "Startup" tab (Fig. 3, right), which lets you edit the lists of library paths and startup libraries, as well as the additional options the program is to be invoked with. By default, Purr Data loads most bundled external libraries at startup and adds the corresponding directories to its library search path. If you don't need all of these, you can remove individual search paths and/or libraries using the "Search Paths" and "Libraries" lists on the Startup tab. Just click on a search path or library and click the Delete button. It is also possible to select an item and add your own search paths and external libraries with the New button, or change an existing entry with the Edit button.

At the bottom of the Startup tab there is a "Startup Flags" field which lets you specify which additional options the program should be invoked with. This is commonly used to add options like <code>-legacy</code> (which enforces bug compatibility with vanilla Pd) as well as the <code>-path</code> and <code>-lib</code> options which provide an alternative way to add search paths and external libraries. For instance, to add JGU's Pure and Faust extensions to the startup libraries, the Startup Flags field may contain something like the following: <code>-lib</code> pure <code>-lib</code> faust/pdfaust

Any desired startup options can be set that way, i.e., anything that Pd usually accepts on the command line. However, note that the startup flags require that you relaunch Purr Data for the options to take effect (the same is true if you change the list of startup libraries). Also, while setting paths and libraries via the startup flags is often convenient, there are some downsides to having these options in two different places, see "Sticky preferences" in the "Tips and Tricks" section below.

As with the other configuration options, remember to press the 0k button in order to have your changes recorded in permanent storage. This will also close the dialog.

Finally, note that if your configuration gets seriously messed up, there are ways to reset Purr Data to its default configuration, see "Resetting the preferences" in the "Tips and Tricks" section.

Getting Help

The best way for new users to learn how to use Purr Data, and Pd in general, is its excellent integrated help system. This is really one of the hallmark features of the Pd program, no matter which flavor you use. Purr Data's help system offers hundreds of help patches covering many different areas, and these help patches are not just documentation, they are *real* Pd patches which you can run to try them out, and then copy and paste relevant parts to your own patches.

It is worth noting here that Purr Data, like Pd-I2ork, continues to build on the Pd-extended documentation efforts. This includes over 200 new and updated help files, including the cyclone library documentation. All of the new help files provide supporting meta info contained within the META subpatch (which is needed, in particular, to enable keyword searches), following the standards set by the Pd documentation project (PDDP). This is an ongoing effort, however, and so not all help patches have been converted yet.

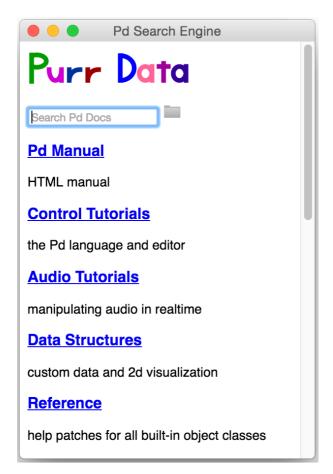
While the sheer amount of help patches can be overwhelming at first, there are some sections in the documentation which are organized as tutorials, so that you can work through them step by step. This includes all the help patches that go along with Miller Puckette's comprehensive book "Theory and Techniques of Electronic Music", which are still the best way to get to grips with Pd. If you are new to Pd, we recommend that you work at least through the sections "Control Tutorials" and "Audio Tutorials", and *really* try to understand what's going on in these patches. With a complex software like Pd, it's all too easy to fall victim to "cargo cult" habits if you just blindly copy parts of other people's patches. You should resist that temptation, at least until you have a solid foundation under your belt, and those two sections will provide you with that.

Purr Data's central point of entry to the help system is its *Help Browser*, discussed below. In addition, as with other Pd flavors, it is also possible to open the help patch for an object by just right-clicking on that object in a patch and choosing the "Help" menu item.

The Help Browser

Using the Help / Help Browser menu option (shortcut: ctrl + B, or cmd + B on the Mac) fires up Purr Data's help browser, which looks deceptively simple (see Fig. 4) and is actually quite easy to use, but offers a lot of functionality under the hood. You can search for object names or keywords by typing them in the search entry field at the top of the browser, or you can browse the available documentation sections in the browser's *home screen*, which is what gets shown initially below the search entry, by just clicking on one of the section titles.

On the right in Fig. 4 you can see how the display changes after you entered a search term like "audio devices" and hit Enter. All related help patches will be shown in the list (with short descriptions of the help patches if available). You can then click on one of the help patches to open it in a canvas window. Clicking on the "x" symbol in the search entry returns you to the home screen.



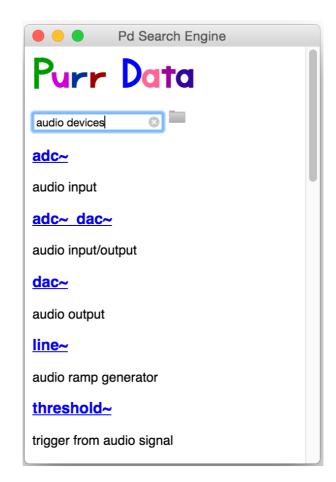


Fig. 4: Help browser.

Note that to keep things simple and not to overwhelm novice users with too much information, the search function only covers the "official" documentation (the doc/ hierarchy). To explore all the other help patches which are available in the extra/ hierarchy (which contains all the 3rd party abstractions and externals), you must employ the little folder icon to the right of the search entry. This will open a file browser (initially on the doc/ folder) which can then be used to browse *all* the available help patches. When looking for help patches in the extra/ hierarchy, which is a sibling of doc/, simply point the file browser to that directory and click on one of its subdirectories containing the various abstractions and externals. Double-clicking on a help patch will open the patch in its own window, and then also show the corresponding directory in the help browser, so that additional help patches from the same folder can be accessed without any further ado.

If you already know the name of a subdirectory with interesting help patches, you can also just type its name in the search entry (including the doc/ or extra/ prefix) to have the corresponding folder displayed in the help browser. For instance, typing "extra/mrpeach" and Enter provides a quick way to access the help patches for the mrpeach externals.

Note that in any case, you can always return to the home screen of the help browser by clicking that tiny "x" symbol in the search entry (or by just hitting Enter in the field if it is empty).

Tips and Tricks

We conclude this primer with a little grab bag of helpful tips and tricks. If your questions aren't answered here, please post them to the DISIS Pd-I2ork mailing list. Questions (and answers) which are of interest to all Purr Data users will likely be added to this section in the future.

Legacy Tcl commands in externals

Every so often you may run into warnings about "legacy Tcl commands" in Purr Data's console window which typically look like this:

```
legacy tcl command at 201 of ../shared/hammer/file.c: hammereditor_close .86439b0 0
```

In most cases these should be harmless, but they may indicate a missing piece of GUI functionality due to Tcl code which has not been ported to Purr Data's new nw.js GUI yet. In any case, feel free to report such messages at Purr Data's issue tracker, so that hopefully someone from the development team can look into them. A proper bug report should at least include the message itself and the Pd object it relates to. If some special steps are needed to reproduce the message, you should report these as well. Also, please do make sure *first* that the specific message you're seeing has not been reported in the issue tracker already.

Pd-I2ork and Purr Data goodies

Compared to vanilla Pd, Pd-I2ork and Purr Data provide a comprehensive set of new and improved features, way too many to even just mention them all, so we refer the interested reader to the PdCon 2016 paper for details. The paper also has a detailed account on the history and motivation of the Pd-I2ork project.

Many of the new features are simply GUI and usability improvements which, if done right, quickly become second nature to the user, so that they aren't even consciously noticed any more. This certainly includes Pd-I2ork's *infinite undo* capability which makes it easy to revert accidental changes without having to worry about taking snapshots of patches while they're under development. Another feature worth mentioning here is the improved *tidy up* option in the Edit menu, which first aligns objects and then spaces them equidistantly.

Another big time-saver is Pd-l2ork's *intelligent patching* facility, which lets you select two or more objects in order to connect multiple outlets and inlets in one go. Intelligent patching offers a number of different modes, the most useful (or at least the easiest) of these are:

- If you select *exactly* two objects A and B, say, and then connect one of the outlets from A to one of the inlets of B, then starting from the initial outlet-inlet pair the remaining outlets of A will be connected to the corresponding inlets of B.
- If you select two (or more) objects B and C, say, and then connect an outlet of a third, unselected object A to an inlet of B, then the corresponding connection from A to C will be done automatically. Conversely, you can also connect an outlet of B to an inlet of A to have the corresponding C-A connection completed for you.
- Also, pressing the shift key while doing connections will let you do multiple connections from the same outlet in one go.

It is worth practicing these so that you can amaze your vanilla-running friends with the speed at which you can construct rather complicated patches using these shortcuts. Unfortunately, neither Pd-l2ork nor Purr Data has a help patch for this incredibly useful facility, so I have provided a little intelligent-patching.pd patch with this primer for your amusement. In the comments, the patch also includes detailed explanations of all the different intelligent patching modes for your perusal.

Other features will be more useful for advanced users, like the reflection capabilities (see the pdinfo, canvasinfo, classinfo and objectinfo help patches) and the new SVG graphics for data structure visualizations. The latter have been considerably enhanced in Purr Data, see the "Pd-L2Ork Data Structures" section in the help browser.

Install classic Pd-I2ork alongside Purr Data

On Linux there are some situations where you may want to run both classic Pd-l2ork and Purr Data on the same system. This may be useful, e.g., if you need some feature of Pd-l2ork like its K12 mode which hasn't been ported to Purr Data yet. In order to do this, you need one of the JGU packages of Purr Data (see "Where to Get It" above). These will install into a separate directory (normally /opt/purr-data) so that the pathnames of the binaries and libraries in the package do not clash with those from a classic Pd-l2ork installation under /usr. The desktop icons will be named differently as well, and a symbolic link named purr-data will be created in the /usr/bin directory. The link points to /opt/purr-data/bin/pd-l2ork and lets you run Purr Data from the command line without having to specify the full path to the executable. Last but not least, the JGU packages have also been patched up so that they use a separate purr-data configuration directory in your home directory instead of Pd-l2ork's pd-l2ork folder, so that the two programs can happily coexist.

Installing externals

Purr Data already bundles many if not most of the 3rd party externals commonly used by Pd users. To add even more, there are some special directories into which you can install the externals so that Purr Data finds them. This is basically the same as with Pd-extended, but the directories are named differently so that you can keep the Purr Data externals separate from the vanilla/extended ones if needed. There's always one location for system-wide and another one for personal installation. The precise locations and names of these directories depend on your platform:

- Linux: /usr/lib/pd-l2ork-externals for system-wide, ~/pd-l2ork-externals for personal installation
- Mac: /Library/Pd-l2ork for system-wide, ~/Library/Pd-l2ork for personal installation
- Windows: %ProgramFiles%\Common Files\Pd-l2ork for system-wide, %UserProfile%\Application Data\Pd-l2ork for personal installation

For singleton externals it will usually be enough if you just copy them into one of these folders and then relaunch Purr Data. External libraries containing a collection of different externals, on the other hand, will typically require that you also load the library at startup, using the available startup configuration options in the preferences (see "GUI and Startup Options" above).

"Sticky" preferences

One pitfall with Purr Data's preferences system (which it shares with its predecessors) is that some options in the startup flags may override other changes done manually in the preferences dialog, and will then appear to "stick" when you relaunch Purr Data. E.g., if a library gets loaded via the —lib option in the startup flags, it will *also* show up in the list of libraries next time you run Purr Data. But if you just remove it there, and not also in the startup flags, then the library will *still* be loaded next time you run Purr Data. The same caveat applies if you have some options setting up aspects of the audio and MIDI configuration in the startup flags and then reconfigure your devices in the Audio and MIDI tabs of the dialog. Thus, if Purr Data appears to stick to a certain audio or MIDI setup even though you're certain that you set (and saved) a new configuration, check the startup flags, they're almost certainly to blame. (Another possible culprit are the Linux desktop files, see below.)

This somewhat confusing behavior is due to how Pd handles the startup flags, especially flags which may override some behavior in other configuration options. The easiest way to get rid of all these mishaps is to remove the relevant options in the startup flags (when in doubt, just delete them all so that the startup flags field is completely empty) and save your options by clicking 0k in the preferences dialog.

Sometimes options may seem to stick even if the startup flags field is in fact empty, so that the preferences dialog appears to be partially dysfunctional. This is almost certainly due to some stray startup options in the application's desktop files, most likely on Linux (Pd-l2ork's original desktop files, which Purr Data inherited in the Linux version, seem to be the main culprit here). Remove the offending options in the desktop icons that you use to launch Purr Data, then this will go away. (Again, when in doubt, just remove *all* of the extra options in the desktop file, so that just the program name remains; none of these options are essential for Purr Data's proper operation.)

Resetting the preferences

It happens to the best of us that we mess up our Pd configuration so badly that it is beyond repair. In such a case you probably want to go back to Purr Data's default setup and start from a clean slate again. Unfortunately, Purr Data's preferences dialog does not provide a button for this (yet), but there are ways to accomplish this. They depend on the particular platform, however.

- On Linux, do rm -rf ~/.pd-l2ork in the terminal (rm -rf ~/.purr-data when using the JGU packages).
- On the Mac, do rm ~/Library/Preferences/org.puredata.pd-l2ork.plist in the terminal.
- On Windows, launch the regedit program and look for the registry key HKEY_CURRENT_USER\Software\Purr—Data or HKEY_LOCAL_MACHINE\Software\Purr—Data . Delete that key and all its subkeys.

Then just relaunch Purr Data. Your preferences should now be in pristine state again, and all the default search paths and startup libraries will be restored. Of course, you will then have to reconfigure your audio and MIDI devices as needed.

Purr Data hangs during startup

As far as I can tell, this was only reported on Mac OS X so far. The symptom is that the GUI launches, but then hangs during the startup sequence after printing the message incoming connection to GUI in the console window. The GUI then becomes totally unresponsive, eating up 100% cpu, and the only way to get rid of it is killing it ("force quit").

The exact causes are unknown right now, but it seems that this behavior may be caused by bad 3rd party externals causing the realtime engine to hang or crash during startup. The GUI then waits for the incoming connection from the engine which never gets established, which makes it hang in turn.

As it's impossible to launch the GUI and remove the offending external in the preferences dialog in this rather unfortunate situation, the only known solution to this problem is to reset the configuration (see "Resetting the preferences" above), after which Purr Data hopefully launches without any hitches again. If you're feeling adventurous, you may then start adding your local externals one by one until the GUI hangs again, at which point you will have identified the culprit, so that you can remove it from your system.

Purr Data starts up very slowly

Again, this seems to be a Mac-specific issue. Older (pre–2.0) Mac versions of Purr Data had the defect that old search paths and startup libraries from previous installations would keep piling up in the configuration until eventually Purr Data's startup would become *very* slow. This has been fixed in the 2.0 version (and startup time on the Mac has generally been improved as well), but if you're still using an old configuration from the pre–2.0 days, then you might still see remnants of this issue even in the 2.0 version.

One thing you can try in this case is to launch the preferences dialog, press 0k and then quit and relaunch Purr Data. If that doesn't help, reset the configuration as explained under "Resetting the preferences" above. (If that doesn't help either, then you probably have a different issue which you should report on Purr Data's issue tracker.)