

Razer device configuration tool

<https://bues.ch/h/razercfg>

This is a configuration utility for Razer devices on Linux systems.

Supported devices

Device support table at https://bues.ch/h/razercfg#device_support

Dependencies

- Python 3.x: <https://www.python.org/>
Debian Linux: `apt-get install python3`
- libusb 1.0: <http://libusb.org/>
Debian Linux: `apt-get install libusb-1.0-0-dev`
- PySide (for the graphical qrazercfg tool only): <https://wiki.qt.io/PySide>
Debian Linux: `apt-get install python3-pyside`
- cmake 2.4 or later (for building only): <https://cmake.org/>
Debian Linux: `apt-get install cmake`

Note that almost all distributions ship prebuilt packages of the above dependencies.

If you installed a dependency after you already ran `cmake .` and/or `make`, it might happen that the dependency is still not found. Just delete the cmake status files or unpack a clean `razercfg` tarball to workaround this issue.

Building

First invoke `cmake` to build the makefiles. Then invoke `make` to build the binaries:

```
cmake .  
make
```

(Note the required space and dot after the `cmake` command)

Installing

First you need to install the tool libraries and binaries. Do this by executing the following command as root:

```
make install
```

Be aware that `make install` installs the shared library `librazer.so` to `$PREFIX/lib`. The default `$PREFIX` is `/usr/local/`, but the install prefix can also be changed via `-DCMAKE_INSTALL_PREFIX='<somewhere>'`. You have to make sure that `librazer.so` in `$PREFIX/lib/` can be found by the dynamic linker `ld.so`. Your operating system most likely already has support for libraries in `/usr/local/lib`. So on most systems you don't have to do anything. If this is not the case, or you installed `razercfg` somewhere else, a new library search path can be added via `/etc/ld.so.conf` or `/etc/ld.so.conf.d/`. See your operating system manual for further information.

If you use systemd:

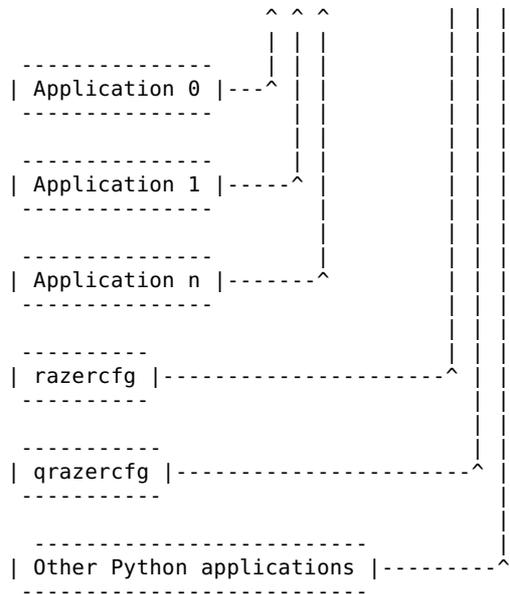
The `make install` step installed the `razerd.service` file. Reboot or run the following command as root to start the `razerd` daemon:

```
systemctl start razerd
```

If you do not use systemd:

To automatically start the required system daemon `razerd` at bootup time, you need to install the init-script. This software package includes a generic example script, that should work out-of-the-box on many Linux distributions. To install it, invoke the following commands as root:

```
cp ./razerd.initscript /etc/init.d/razerd  
ln -s /etc/init.d/razerd /etc/rc2.d/S99razerd  
ln -s /etc/init.d/razerd /etc/rc5.d/S99razerd  
ln -s /etc/init.d/razerd /etc/rc0.d/K01razerd  
ln -s /etc/init.d/razerd /etc/rc6.d/K01razerd
```

So in general, your application wants to access the razer devices through pyrazer or (if it's not a python app) through librazerd. (Note that librazerd is not written, yet. So currently the only way to access the devices is through pyrazer). Applications should never poke with lowlevel librazer directly, because there will be no instance that keeps track of the device state and permissions and concurrency.

License

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