BlueZ with MIDI over BLE Support

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This is an installation guide for the latest version of BlueZ, the official Linux Bluetooth protocol stack, on Ubuntu.

I used this to get MIDI over BLE working on Ubuntu 16.04.

Installing the Dependencies

Use your package manager to install the necessary dependencies. You'll also need the usual build tools, so install them as well if you haven't already.

```
$ sudo apt install libudev-dev libical-dev libreadline-dev libdbus-1-dev libasound2-dev
$ sudo apt install build-essential
```

Downloading BlueZ

You can download the latest version from <u>www.bluez.org</u>, or download it directly from the command line. Then extract the file you downloaded.

```
$ cd /tmp
$ wget https://mirrors.edge.kernel.org/pub/linux/bluetooth/bluez-5.50.tar.xz
$ tar -xf bluez-5.50.tar.xz
```

Building and Installing BlueZ

Finally, run the configure script and make and install everything. Also reinstall the version from the package manager, as explained here

```
$ cd bluez-5.50
$ ./configure --enable-midi --with-systemdsystemunitdir=/etc/systemd/system
$ make
$ sudo make install
$ sudo apt-get install --reinstall bluez
```

That's it! After rebooting, MIDI over BLE should work.

The first time after rebooting, my computer seemed kind of slow, but rebooting again solved that problem.

Shell Script

Here's a shell script that executes the previous steps for you.

```
#!/usr/bin/env bash

set -ex

sudo apt-get install -y \
    libudev-dev libical-dev libreadline-dev libdbus-1-dev libasound2-dev \
    build-essential

cd /tmp

wget https://mirrors.edge.kernel.org/pub/linux/bluetooth/bluez-5.50.tar.xz

tar -xf bluez-5.50.tar.xz

cd bluez-5.50

./configure --enable-midi --with-systemdsystemunitdir=/etc/systemd/system

make

sudo make install

sudo apt-get install --reinstall bluez
```

You can download it here. Then allow execution and run it:

```
$ chmod +x bluez.sh
$ ./bluez.sh
```