

Installing CCGX functionality on a raspberry pi (package based)

While Matthijs is having fun at

http://www.victronenergy.com/live/open_source:ccgx:installing_ccgx_func_on_raspberry_pi this page is about deploying packages for a Raspberry PI. This is not something officially supported nor complete. This is tested on a Rpi B+ v1.2 with Raspbian.

First of all, the Rpi 1 is based on a armv6, while armhf has a minimum of ARMv7+VFP3, yet the Raspbian image believes it is running armhf. The answer seems simply that Raspbian redefined armhf to ARMv6+VFP but forgot to rename it somehow. Since these binaries are incompatible, it won't in general be enough to compile a package for Debian/armhf and expect it to work on a Rpi 1. A Rpi 2 can run Debian armhf and would be better of doing so instead of running Raspbian.

Anyway, it seems that supporting a package for a rpi needs rpi specific packages, so that is what is done. To get it (there is only 1 for testing) the following must be done:

```
sudo nano /etc/apt/sources.list
```

And add the following line

```
deb http://updates.victronenergy.com/feeds/raspbian/dists/wheezy/contrib  
binary-armhf/
```

e.g. vedirect-dbus can now be installed with

```
sudo apt-get update  
sudo apt-get install vedirect-dbus
```

vedirect_dbus is an implementation of the design at

http://www.victronenergy.com/live/open_source:ccgx:start. On a linux system it can send its obtained values to any language of your desire. You can start it with e.g.

```
vedirect-dbus -s /dev/ttyUSB0 -vvv
```

note: on a rpi it will connect to a SESSION dbus

From:

<https://www.victronenergy.com/live/> - **Victron Energy**

Permanent link:

https://www.victronenergy.com/live/open_source:ccgx:raspbian_deb?rev=1430259148

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