simbamond (1.3) unstable; urgency=low
* Snapshot releases in the 1.3+4 series.
Hamish Cunningham (http://gate.ac.uk/hamish/) <hamish@gate.ac.uk> Tue, 17 Sep 2013 13:44:00 +0100

simbamond (1.0) unstable; urgency=low
* Initial Release.
Hamish Cunningham (http://gate.ac.uk/hamish/) <hamish@gate.ac.uk> Wed, 14 Aug 2013 10:25:02 +0300

(Use the dch -i to add a new entry to changelog.)

The copyright file (the licence):

Format: http://dep.debian.net/deps/dep5
Upstream-Name: simbamon
Source: https://github.com/hamishcunningham/pi-tronics/tree/master/simbamon

Files: *
Copyright: 2013 Hamish Cunningham <hamish@gate.ac.uk>
License: GPL-3.0+

Files: debian/*
Copyright: 2013 Hamish Cunningham <hamish@gate.ac.uk>
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This program is free software: you can redistribute it and/or modify

The docs file (listing documentation files):

man/simbamond.txt
README.txt

The README file (details of the packaging of the software):

The Debian Package simbamond

Comments regarding the package:

seeded using dh_make -p=simbamond_1.0 --native adapted using instructions in the maint-guide package

Hamish Cunningham <hamish@gate.ac.uk> Sat, 10 Aug 2013 18:51:23 +0300

There are a couple more files needed for SimBaMon and BlinkIP that relate to their role as daemons — see postinst, postrm and the .default and .init links in the debian directory.

And that's it! With the appropriate Makefile magic, you can now say "make package" and out will pop the files you need to upload to an Ubuntu PPA, and/or contribute to Raspbian, and/or put on a download page for people to install themselves.

5.2. WiringPi

A lot of our recent projects have used the excellent WiringPi library to talk to the Pi's electronics from software. A small frustration in this process has been the library's lack of integration into Raspbian... So I've written the code needed to do this, and made it available from GitHub. It uses a packaging process exactly like the one described above.

A WiringPi breadboard layout

Now we can install WiringPi without having to download or compile it, like this:

wget
https://raw.github.com/hamishcunningham/wiringpi/master/package/2.13/unstable/wiringpi_2.13_armhf.deb
sudo dpkg -i ./wiringpi_2.13_armhf.deb

Unlike the script-based examples in the previous section, WiringPi is written in the C programming language and therefore needs to be compiled before use. Gordon Henderson (WiringPi's author) uses a script called build to do this; to create a .deb I added a Makefile that copies code from the build script and adds an install target and packaging targets (like those used in the previous section).

Then I documented the other changes I needed to