gstreamer

BV

January 23, 2016

Contents

1 Links

- manual.pdf

- python bindings example (blog) with PyGtk included

- porting to GStreamer 1.0 use python-gi not python-gst

- aurena this seems to be billed as what I want to do and includes the idea of monitoring the current time and adapting the playback rate.

2 Aurena

Fill `~/.config/aurena/playlist.txt` with one path to an audio file per line. Apparently a blank line gets counted too so don't add those. `~/.local/share/aurena/aurena.db` gets updated with info on what is found.

2.1 Ubuntu

On Ubuntu 14.04 need this commit of May 9, 2014 libsoup which means at least 2.45.90.

2.2 RPi

The RPi is even older as it only has libsoup 2.38.1. GStreamer is at 1.2.0. Here is some info on building GStreamer from source for RPi in a cross-compiling way. This thread has someone that saved us the trouble but for just 1.2.4.

```
deb http://vontaene.de/raspbian-updates/ . main
```

There is also a `jessie` Rasbian distro which one can `dist-upgrade` to. It has GStreamer 1.4.4.

```
pi@rpi ~ $ cat /etc/apt/sources.list
deb http://mirrordirector.raspbian.org/raspbian/ wheezy main contrib non-free rpi
# Uncomment line below then 'apt-get update' to enable 'apt-get source'
#deb-src http://mirror.ox.ac.uk/sites/archive.raspbian.org/archive/raspbian/ wheezy ma

deb http://mirrordirector.raspbian.org/raspbian/ jessie main contrib non-free rpi
```

I removed X11 server and LXDE related packages before doing a dist-upgrade.

2.3 BBB

I was messing with Volumio for BBB so that's my starting point. It is already at Debian Jessie. This is "real" Debian, not Raspbian.

```
volumio@bbb:~$ cat /etc/apt/sources.list
deb http://http.debian.net/debian jessie main non-free
# deb-src http://http.debian.net/debian wheezy main non-free
```

In upgrading both, BBB is clearly faster than RPi. Maybe the eMMC.

3 More links

- http://developer.ridgerun.com/wiki/index.php/Introduction_to_
  network_streaming_using_GStreamer

- http://docs.gstreamer.com/display/GstSDK/Tutorials

- https://github.com/rubenrua/GstreamerCodeSnippets