mjpg-streamer

This is a fork of http://sourceforge.net/projects/mjpg-streamer/ with added support for the Raspberry Pi camera via the input_raspicam plugin.

mjpg-streamer is a command line application that copies JPEG frames from one or more input plugins to multiple output plugins. It can be used to stream JPEG files over an IP-based network from a webcam to various types of viewers such as Chrome, Firefox, Cambozola, VLC, mplayer, and other software capable of receiving MJPG streams.

It was originally written for embedded devices with very limited resources in terms of RAM and CPU. Its predecessor "uvc_streamer" was created because Linux-UVC compatible cameras directly produce JPEG-data, allowing fast and perfomant M-JPEG streams even from an embedded device running OpenWRT. The input module "input_uvc.so" captures such JPG frames from a connected webcam. mjpg-streamer now supports a variety of different input devices.

Security warning

WARNING: mjpg-streamer should not be used on untrusted networks! By default, anyone with access to the network that mjpg-streamer is running on will be able to access it.

Plugins

Input plugins:

- input_file
- input_http
- input_opencv ([documentation](#))
- input_ptp2
- input_raspicam ([documentation](#))
- input_uvc ([documentation](#))

Output plugins:

- output_file
- output_http ([documentation](#))
- ~output_rtsp~ (not functional)
- ~output_udp~ (not functional)
- output_viewer ([documentation](#))
- output_zmqserver ([documentation](#))

Building & Installation

You must have cmake installed. You will also probably want to have a development version of libjpeg installed. I used libjpeg8-dev. e.g.

```
sudo apt-get install cmake libjpeg8-dev
```

If you do not have gcc (and g++ for the opencv plugin) you may need to install those.

```
sudo apt-get install gcc g++
```

Simple compilation

This will build and install all plugins that can be compiled.

```
cd mjpg-streamer-experimental
make
sudo make install
```

By default, everything will be compiled in "release" mode. If you wish to compile with debugging symbols enabled, you can do this:

```
cd mjpg-streamer-experimental
make distclean
make CMAKE_BUILD_TYPE=Debug
sudo make install
```

Advanced compilation (via CMake)

There are options available to enable/disable plugins, setup options, etc. This shows the basic steps to enable the experimental HTTP management feature:

```
cd mjpg-streamer-experimental
mkdir _build
cd _build
cmake -DENABLE_HTTP_MANAGEMENT=ON ..
make
sudo make install
```

Usage

From the mjpeg streamer experimental folder:

```
export LD_LIBRARY_PATH=.
./mjpg_streamer -o "output_http.so -w ./www" -i "input_raspicam.so"
```

See README.md or the individual plugin's documentation for more details.

Discussion / Questions / Help

Probably best in this thread http://www.raspberrypi.org/phpBB3/viewtopic.php?f=43&t=45178

Authors

mjpg-streamer was originally created by Tom Stöveken, and has received improvements from many collaborators since then.

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