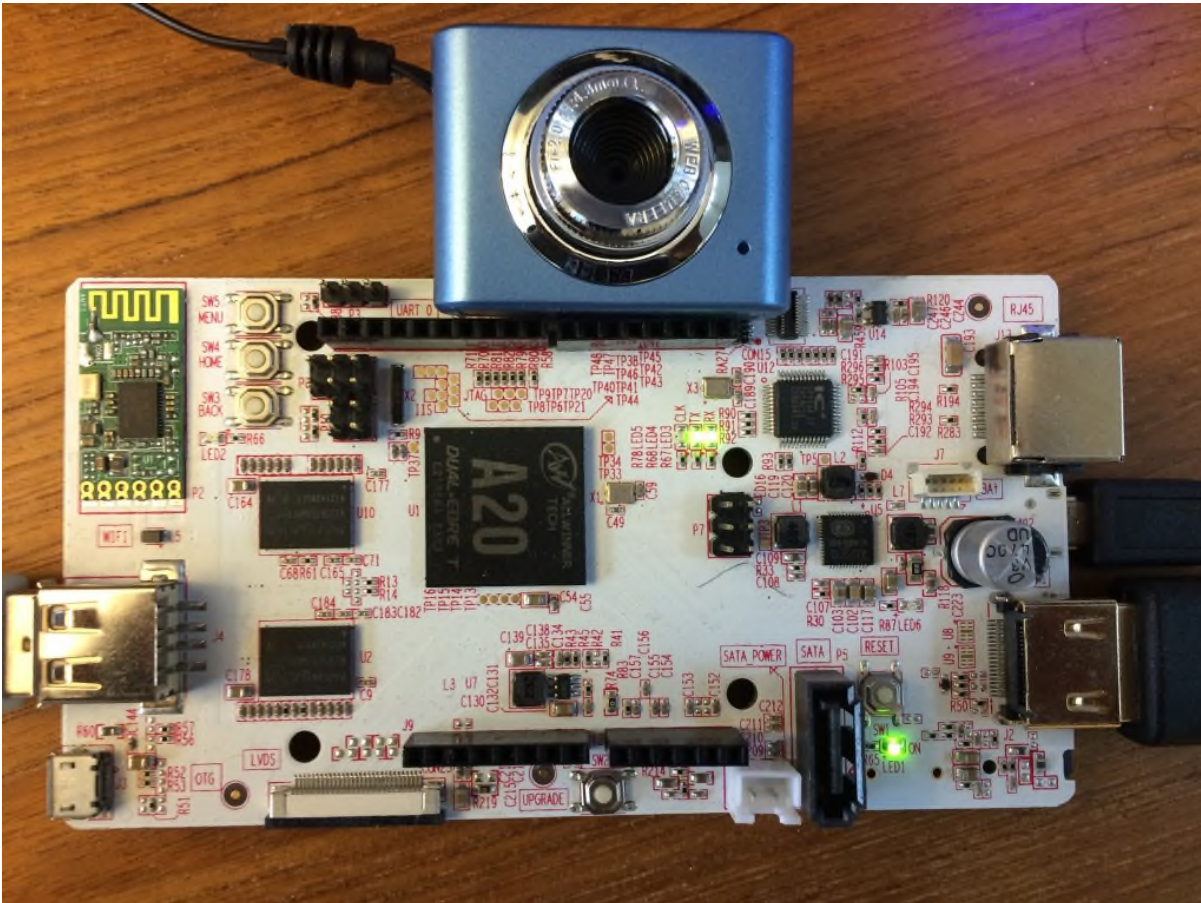


USB Webcam Streaming from pcDuino3 to Android using gstreamer jpegenc

This tutorial follows the steps found [here](#).



When we first attempted this project we used the [5MP CSI camera](#) but were unable to make the 5MP CSI camera work with gstreamer. So we switch to [the USB web cam](#) and it works perfectly.

Install gstreamer:

```
1 $sudo apt-get install gstreamer-tools gstreamer0.10-plugins-bad gstreamer0.10-plugins-good
```

To create gstreamer start script we used tcsh shell. First we install it with this command.

```
1 $sudo apt-get install tcsh
```

Create the script file 'gst-server.sh' that is used to start gstreamer streaming server.

Please use the IP address found in your '\$ifconfig' in place of 192.168.0.103 shown here.

```
1
2  #!/bin/tcsh
3
4  set myip=192.168.0.103
5  set port=5000
6  set width=320
7  set height=240
8
9  gst-launch\  
10     v4l2src !\  
11     ffmpegcolorspace !\  
12     video/x-raw-yuv,width=${width},height=${height},framerate=\(fraction\)30/1 !\  
13     jpegenc !\  
14     tcpserver sink host=${myip} port=${port} sync=false
```

Next add an executable permission to the script.

```
1  $sudo chmod u+x gst-server.sh
```

Start gstreamer server using this command.

```
1  sudo ./gst-server.sh
```

On the Android side, you can download the Android apk file from [here](#).

The source files for the Android APK can be found at [simplemjpegview_gst](#) which is based on [SimpleMjpegStreamer](#).