

How to run HttpLD (HLD) on a BeagleBone Black

You will need to be sure that you have the latest BeagleBone Black image (see START.htm on your BBB).

Preparation:

1. Transfer arm_httpd_X.XXX.deb to BeagleBone device.
2. Navigate to where you put the package
3. Run these commands:
 - a. sudo apt-get install libusb-1.0-0-dev
 - b. sudo dpkg -i arm_httpd_X.XXX.deb
 - c. sudo update-rc.d httpd defaults
 - d. This should extract the latest version and set it up as a service.
4. Ensure that your Model 831 is attached to the BeagleBone via USB.
5. Then reboot the device. The httpd service will start up on boot.
 - a. You can check to make sure it is running by:
 - i. sudo service httpd status
6. Run the getPageStatus command.
 - a. http://ipaddress_of_beagle:2001/sdk?func=getPageStatus
 - b. See the “Using HttpLD” manual for more information on using your configured BeagleBone Black.
7. You may enable or disable the service with:
 - a. sudo update-rc.d httpd enable
 - b. sudo update-rc.d httpd disable

Running HLD

The .deb package will set HLD to run as a service. You can disable the service and run HLD manually. You may also wish to modify the other components running on the BeagleBone to allow HLD to access port 80.

Option 1: Disable port 80 for HLD

1. Must pass the port (-p) parameter to HLD on startup
 - a. (i.e. httpd -p 2001).
 - b. If this parameter is not specified, HLD will default to using ports 80 & 2001.
2. All sdk calls to HttpLD must now specify the port specified on launch.
 - a. (i.e. 192.168.1.1:2001/sdk?func=getpagestatus).

Option 2: Disable services that use port 80 at startup and/or to eliminate unnecessary overhead.

1. At a Beaglebone command prompt, execute the following commands (as root):
 - a. systemctl disable cloud9.service

- b. systemctl disable cloud9.socket
 - c. systemctl disable gateone.service
 - d. systemctl disable bonescript.service
 - e. systemctl disable bonescript.socket
 - f. systemctl disable bonescript-autorun.service
 - g. systemctl disable avahi-daemon.service
 - h. systemctl disable gdm.service
 - i. systemctl disable mpd.service
2. All sdk calls to HLD will now respond on the default port 80.

Test

Open Web Browser to URL: <http://<beagle-ip-address>:2001/ScreenGrabber.html>