Quercus Installation/startup in pictures
8/31/2022

The following slides show a shell session during the build, install and startup steps for the Quercus software and firmware and the browser view of the Aardvark software running.

```
psoper@len:~/quercusdoc/tools/linux$ ./installit myssid mypassword -targetdevice ESP32
targetdir: /home/psoper/.quercus
targetdevice: ESP32
targetbranch: origin/release/v4.4
node version: 14
targetsda: 18
targetscl: 19
targetSSID: myssid
targetpassword: mypassword
Installing required Linux packages
WARNING: You are using pip version 21.3.1; however, version 22.2.2 is available.
You should consider upgrading via the '/home/psoper/.espressif/python_env/idf4.4_py3.8_env/bin/python -m pip install --upgrade pip' command.
valid esp-idf repo
clone que_aardvark and que_ant


install node version 14
micro DNS url for ant: http://ant_0000.local
preparing node in que_aardvark
preparing node in que_ant
installing npm in que_ant
```

```
clone que_aardvark and que_ant


install node version 14
micro DNS url for ant: http://ant_0000.local
preparing node in que_aardvark
preparing node in que_ant
installing npm in que_ant
Kconfig.projbuild edits in que_ant
idf build of que_ant
installation complete
To use the IDF in arbitrary places add this line to ~/.bashrc:
. /home/psoper/.quercus/esp-idf/export.sh >/dev/null 2>&1
Now cd to /home/psoper/.quercus/que_ant and enter 'idf.py flash'
Then enter 'idf.py monitor' and copy the IP address into your clipboard.
The IP address will look something like this:
esp_netif_handlers: sta ip: 192.168.12.196, mask: 255.255.255.0, gw: 192.168.12.1
Use cntrl ] to break out of monitor when you no longer need it.
Then edit file /home/psoper/.quercus/que_aardvark/src/api/project.js and replace
192.168.100.150 on line 56 with the IP copied to your clipboard.
Then cd to /home/psoper/.quercus/que_aardvark and enter 'npm run build'.
Then 'npm run serve'.
Then point your browser to http://localhost:8080
```

```
psoper@len:~/quercusdoc/tools/linux$
psoper@len:~/quercusdoc/tools/linux$
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psoper@len:~/quercusdoc/tools/linux$
psoper@len:~/quercusdoc/tools/linux$
psoper@len:~/quercusdoc/tools/linux$ pushd ~/.quercus/que_ant
~/.quercus/que_ant ~/quercusdoc/tools/linux
direnv: loading ~/.quercus/que_ant/.envrc
direnv: export +IDF_PATH +IDF_PYTHON_ENV_PATH +IDF_TOOLS_EXPORT_CMD +IDF_TOOLS_INSTALL_CM
D +OPENOCD_SCRIPTS ~PATH
psoper@len:~/.quercus/que_ant$ idf.py flash monitor
```

```
I (638) system_api: read default base MAC address from EFUSE
I (638) wifi_init: rx ba win: 6
I (638) wifi_init: tcpip mbox: 32
I (648) wifi_init: udp mbox: 6
I (648) wifi_init: tcp mbox: 6
I (648) wifi_init: tcp tx win: 5744
I (658) wifi_init: tcp rx win: 5744
I (658) wifi_init: tcp mss: 1440
I (668) wifi_init: WiFi IRAM OP enabled
I (668) wifi_init: WiFi RX IRAM OP enabled
I (678) phy_init: phy_version 4670,719f9f6,Feb 18 2021,17:07:07
W (788) ../main/ant_main.c: Start APSTA Mode
I (1738) AP-STA: WIFI_MODE_AP started. SSID:ap-ssid password:ap-password channel:1
W (2708) wifi:<ba-add>idx:0 (ifx:0, 24:4b:fe:c0:93:40), tid:0, ssn:0, winSize:64
I (6738) AP-STA: bits=0
I (6738) AP-STA: WIFI_MODE_STA can't connected. SSID:OZ password:rochdale
I (6988) ../main/ant_main.c: Partition size: total: 1920401, used: 556969
I (6998) esp-rest: Starting HTTP Server
I (7128) esp_netif_handlers: sta ip: 192.168.1.37, mask: 255.255.255.0, gw: 192.168.1.1

Done
psoper@len:~/.quercus/que_ant$ cd ../que_aardvark
direnv: unloading
psoper@len:~/.quercus/que_aardvark$ vi src/api/project.js
```

```
}

/**
 * Query item list
 * @param {Object} query
 * @return {Promise<any>}
 */
// eslint-disable-next-line no-unused-vars
export const getProjectList = function (query = {}, _data) {

  return request.get('/aardvark/list', { params: query })
}

// This currently doesn't work
// let BaseURL = autoconfig.localurl + '/api/v1/'


// The IP here has to be manually replaced from the ESP32 IP published via monitor output
let BaseURL ='http://192.168.1.217/api/v1/'

// eslint-disable-next-line no-unused-vars
export const getESPInfo = function (query = {} ,_data) {
  console.log("aardvark called", BaseURL)
"src/api/project.js" line 63 of 156 --40%-- col 1
```

```
psoper@len:~/.quercus/que_aardvark$
psoper@len:~/.quercus/que_aardvark$
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psoper@len:~/.quercus/que_aardvark$
psoper@len:~/.quercus/que_aardvark$
psoper@len:~/.quercus/que_aardvark$ npm run build;npm run serve
```
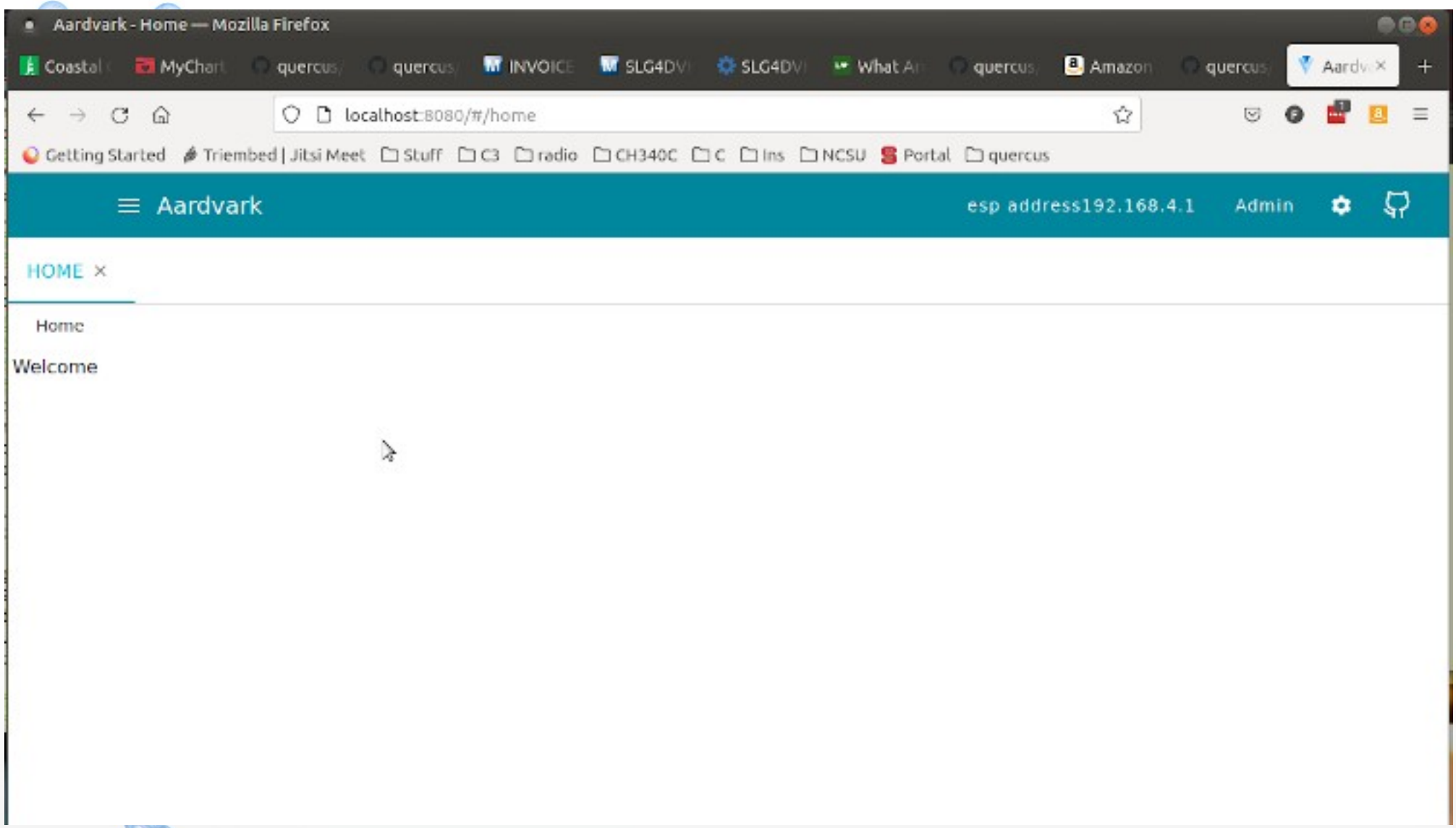
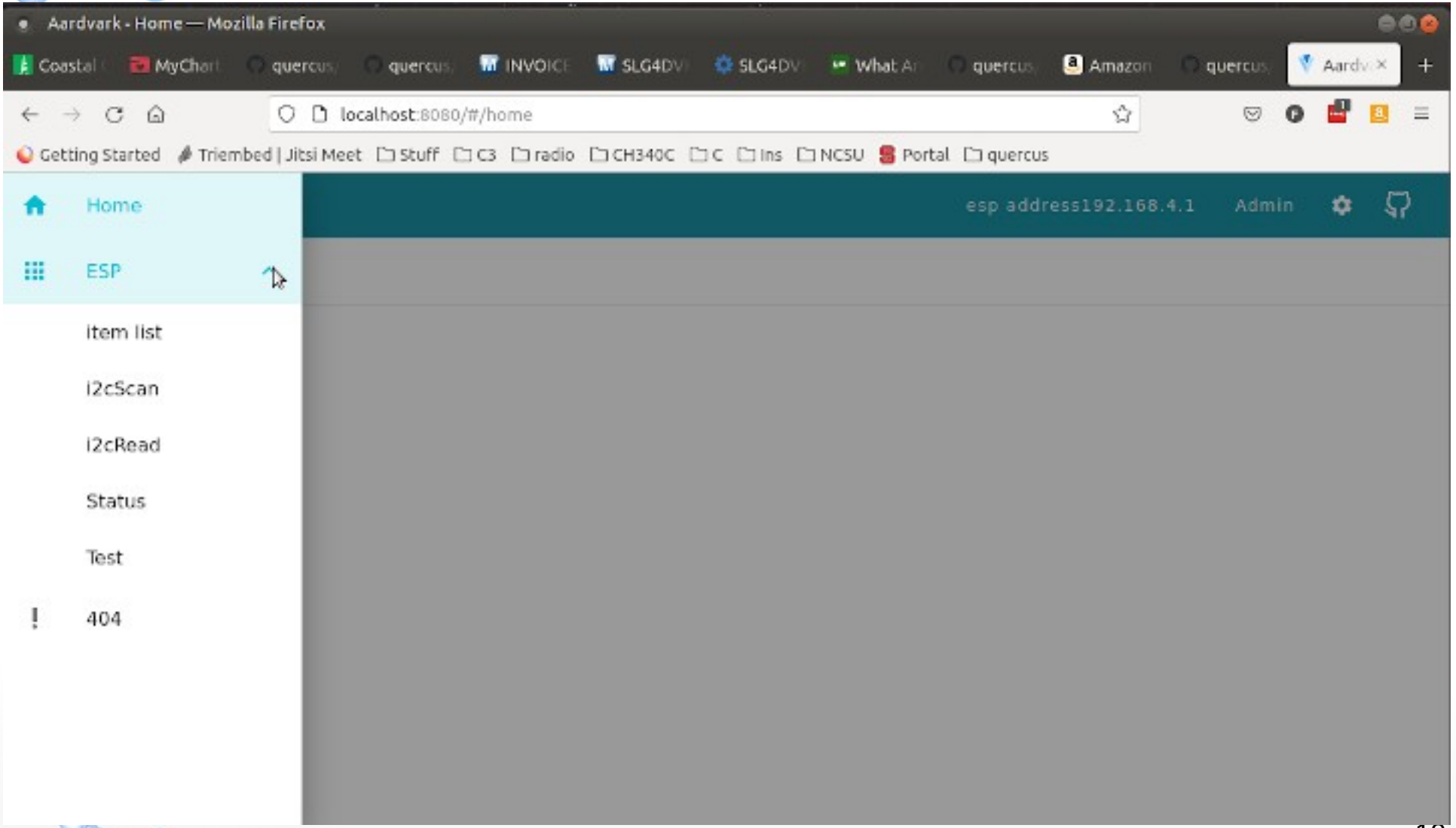
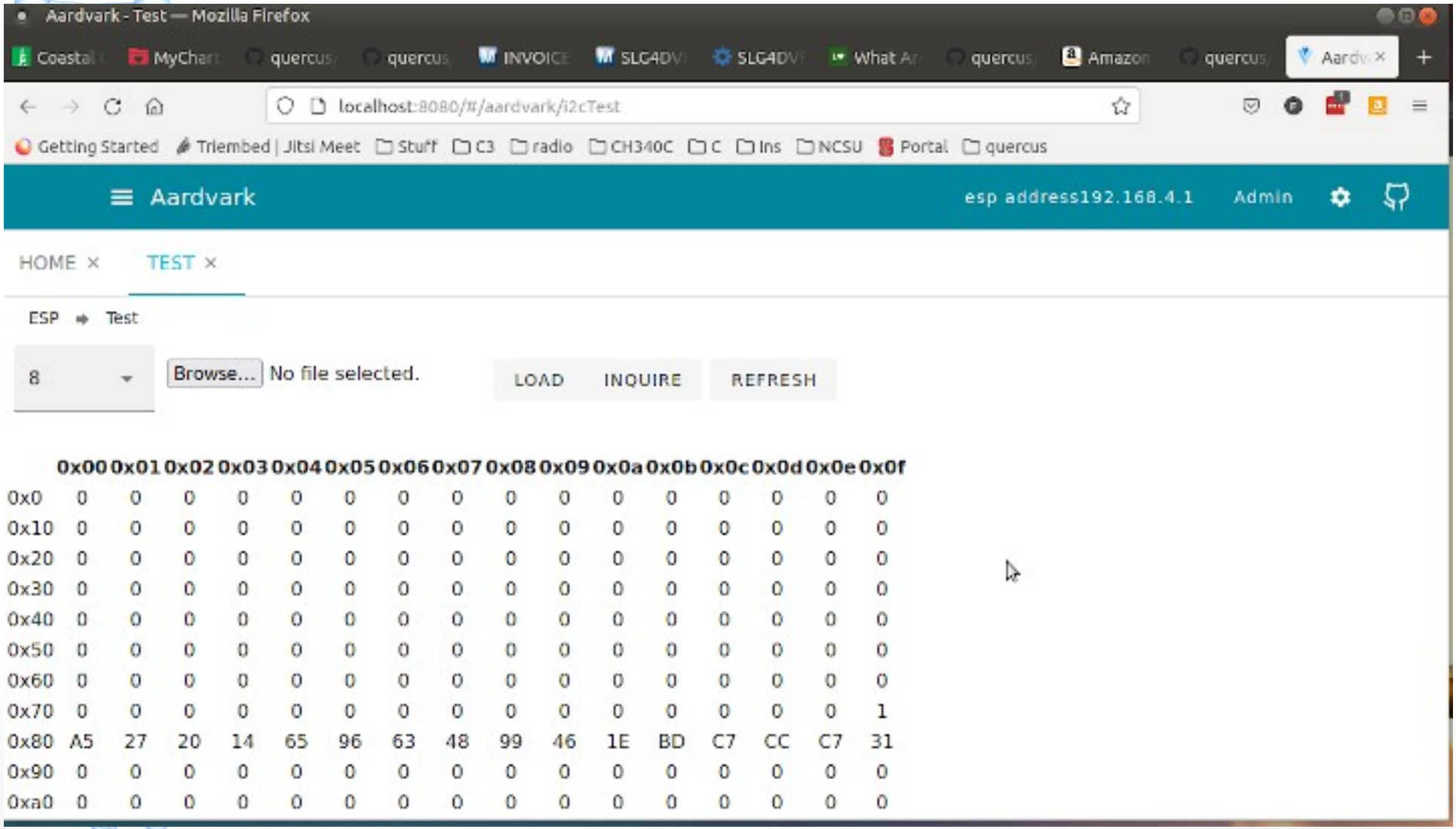
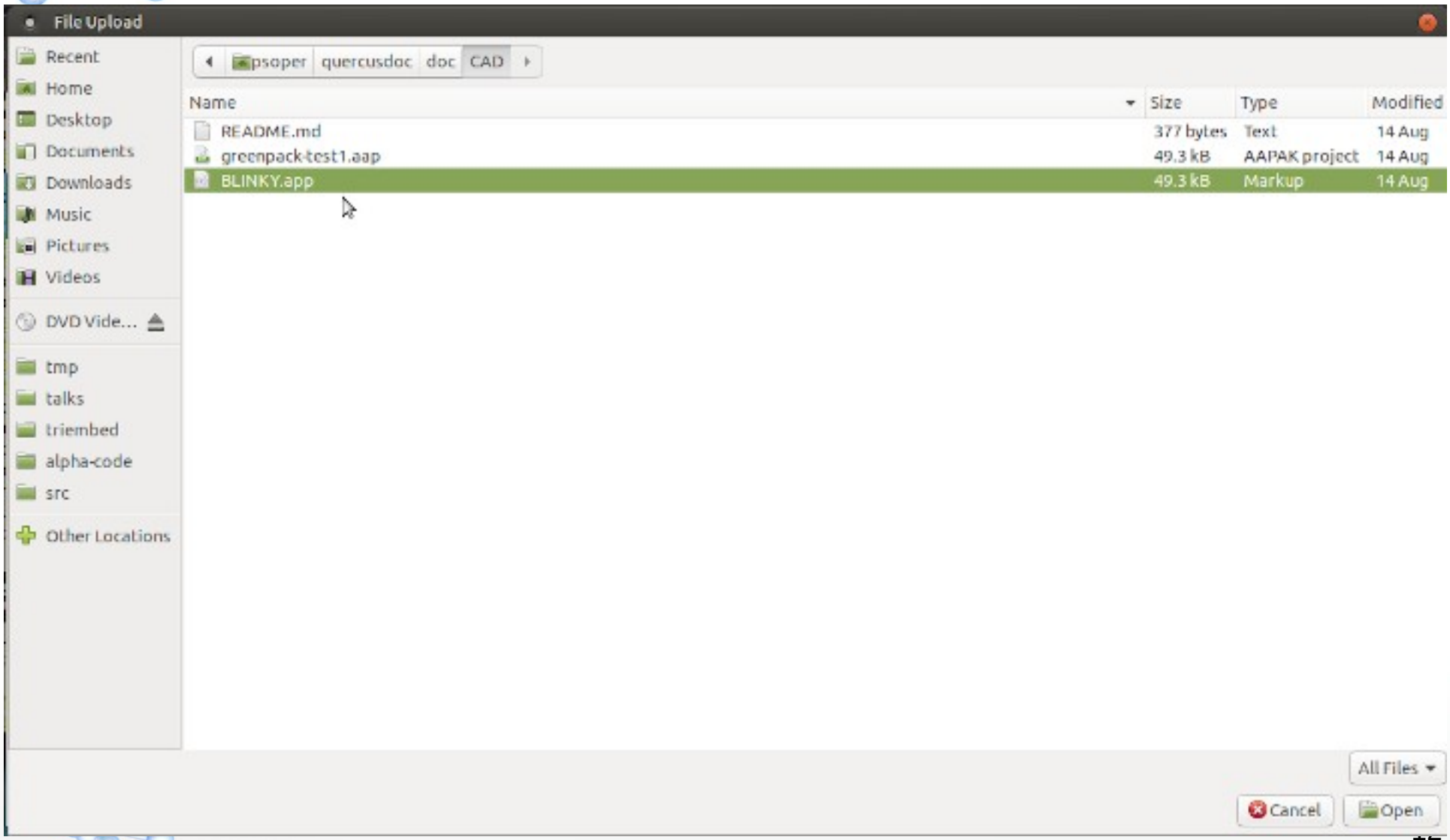

```
 20 |         </div>

 ✖ Expected newline after ";" (declaration-block-semicolon-newline-after)
(declaration-block-semicolon-newline-after)
 15 |         />
 16 |
> 17 |         <div style="padding-top: 12px; margin-left: 10px;">
    |                                        ^
 18 |           <input type="file" ref="file" @change="readFile()">
 19 |           <div />
 20 |         </div>

 2 errors



 App running at:
 - Local:   http://localhost:8080
 - Network: http://192.168.1.5:8080

 Note that the development build is not optimized.
 To create a production build, run npm run build.
```


Aardvark - Home — Mozilla Firefox
localhost:8080/#/home
Getting Started
Triembed | Jitsi Meet
Stuff
C3
radio
CH340C
C
Ins
NCSU
Portal
quercus
Aardvark
esp address192.168.4.1
Admin
HOME ×
Home
Welcome


Aardvark - Home — Mozilla Firefox
localhost:8080/#/home
Getting Started
Triembed | Jitsi Meet
Stuff
C3
radio
CH340C
C
ins
NCSU
Portal
quercus
Home
ESP
item list
i2cScan
i2cRead
Status
Test
404
esp address192.168.4.1
Admin



	0x00	0x01	0x02	0x03	0x04	0x05	0x06	0x07	0x08	0x09	0x0a	0x0b	0x0c	0x0d	0x0e	0x0f
0x0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0x80	A5	27	20	14	65	96	63	48	99	46	1E	BD	C7	CC	C7	31
0x90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0xa0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0


File Upload
Recent
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
DVD Vide...
tmp
talks
triembed
alpha-code
src
Other Locations
psoper
quercusdoc
doc
CAD
Name
Size
Type
Modified
README.md
377 bytes
Text
14 Aug
greenpack-test1.aap
49.3 kB
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49.3 kB
Markup
14 Aug
All Files
Cancel
Open

Aardvark - Test — Mozilla Firefox

Coastal | MyChart | quercus/ | quercus/ | INVOICE | SLG4DVI | SLG4DVI | What Ar | quercus/ | Amazon | quercus/ | Aardv ×

localhost:8080/#/aardvark/i2cTest

Getting Started | Triembed | Jitsi Meet | Stuff | C3 | radio | CH340C | C | Ins | NCSU | Portal | quercus

Aardvark esp address192.168.4.1 Admin

HOME × TEST ×

ESP → Test

8 Browse... BLINKY.app LOAD INQUIRE REFRESH

	0x00	0x01	0x02	0x03	0x04	0x05	0x06	0x07	0x08	0x09	0x0a	0x0b	0x0c	0x0d	0x0e	0x0f
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0x20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0x70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0x80	A5	27	20	14	65	96	63	48	99	46	1E	BD	C7	CC	C7	31
0x90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0xa0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0