Steps to install pc-ble-driver-js (32-bit)

This is for the User Interface

Sources:

<https://github.com/NordicSemiconductor/pc-ble-driver-js>

<https://github.com/NordicSemiconductor/pc-ble-driver/blob/master/README.md>

Note: All steps starting with $ are commands for Command Prompt (CMD), so no need to copy “$”

1. Download Visual Studio 2017

<https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=15>

1. In Visual Studio Installer, select and install
2. Universal Windows Platform development
3. Desktop development with C++
4. Install Chocolatey. Install with cmd.exe (Run as administrator and copy everything below)

@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"

1. Add to Chocolatey to Environment Variables

$ SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"

1. Install Git

$ choco install -y git

1. Install CMake

$ choco install -y cmake

1. Install vcpkg

$ git clone https://github.com/Microsoft/vcpkg.git

$ cd vcpkg

$ .\bootstrap-vcpkg.bat

1. Intall Ninja

$ choco install -y ninja

1. Install GNU Embedded Toolchain for Arm

$ choco install gcc-arm-embedded

1. Uninstall nodejs if you have it
2. Install nodejs v8.11.2 for 32-bit [node-v8.11.2-x86.msi](https://nodejs.org/download/release/v8.11.2/node-v8.11.2-x86.msi)
3. Download BOOST [boost\_1\_69\_0.7z](https://dl.bintray.com/boostorg/release/1.69.0/source/boost_1_69_0.7z) and unzip under C:\boost\boost\_1\_69\_0
4. Build Boost (step iv will take a while)
5. $ cd C:\boost\boost\_1\_69\_0
6. $ bootstrap.bat
7. Edit project-config.jam file:

import option ;

using msvc : 14.0 : "C:\Program Files (x86)\Microsoft Visual Studio\2017\Community\VC\Tools\MSVC\14.16.27023\bin\Hostx86\x86\cl.exe";

option.set keep-going : false ;

1. $ b2 toolset=msvc-14.1 --build-dir=.x86 --stagedir=stage\_x86
2. $ cd C:\Users\your\_user\Documents
3. $ git clone <https://github.com/NordicSemiconductor/pc-ble-driver-js.git>
4. $ cd pc-ble-driver-js
5. Delete pc-ble-driver folder
6. $ git clone <https://github.com/NordicSemiconductor/pc-ble-driver.git>
7. $ cd pc-ble-driver-js\pc-ble-driver
8. $ mkdir build && cd build
9. $ vcpkg install asio
10. $ vcpkg install catch2
11. Switch from CMD to x86 Native tools Command prompt for VS 2017
12. $ cmake -G Ninja ..
13. $ cmake --build .
14. Should build without errors
15. Cd back to \pc-ble-driver-js
16. $ npm config set cmake\_CMAKE\_GENERATOR:INTERNAL="Visual Studio 15 2017"
17. $ npm config set cmake\_BOOST\_ROOT=c:\boost\boost\_1\_69\_0
18. Add .npmrc file in \pc-ble-driver-js folder(builds dependencies for running driver on Electron)

runtime = electron

target = 2.0.17

disturl = <https://atom.io/download/electron>

1. $ npm install
2. $ npm test
3. Still in \pc-ble-driver-js, edit package.json file:

{

"name": "your-app",

"version": "0.1.0",

"main": "main.js",

"scripts": {

"start": "electron ."

}

}

1. Install Electron

$ npm install --arch=ia32 --save-dev electron@2.0.17

1. Start program

$ npm start