Beginning

In this instruction, we will introduce two ways to drive our Intel Wireless Card.

- Use itlwm and HeliPort
- Use AirportItlwm

The latest releases of AirportItlwm and itlwm can be found at the following link:

• https://github.com/OpenIntelWireless/itlwm/releases

The latest release of HeliPort can be found at the following link:

• https://github.com/OpenIntelWireless/HeliPort/releases

How to Use

Use itlwm and HeliPort

- First, turn off Show Wi-Fi status in menu bar in SysPref Network Wi-Fi.
- Then, unzip all the packs you downloaded and copy itlwm.kext to /EFI/CLOVER/kexts/Other/ or /EFI/OC/Kexts/.
- If you are using OC, you need to add the following code to your config.plist:

```
<dict>
    <key>Arch</key>
    <string>x86 64</string>
    <key>BundlePath</key>
    <string>itlwm.kext</string>
    <key>Comment</key>
    <string>Intel Wi-Fi driver</string>
    <key>Enabled</key>
    <true/>
    <key>ExecutablePath</key>
    <string>Contents/MacOS/itlwm</string>
    <key>MaxKernel</key>
    <string></string>
    <key>MinKernel</key>
    <string>16.0.0</string>
    <key>PlistPath</key>
    <string>Contents/Info.plist</string>
```

- Reboot, and move HeliPort.app to your Applications folder.
- Open HeliPort.app and done.
 - You need to allow software from any sources first.
 - Run sudo spctl --master-disable in Terminal.app.

Use AirportItlwm

- First, make sure your macOS version ≥ 10.15 .
- Remove itlwm and HeliPort and turn on Show Wi-Fi status in menu bar in SysPref Network

 Wi-Fi.
- Then, unzip the pack you downloaded and copy AirportItlwm.kext to /EFI/CLOVER/kexts/Other or /EFI/OC/Kexts/.

For Clover users

 Open /EFI/CLOVER/config.plist and add the following code to KernelAndKextPatches -ForceKextsToLoad:

For OpenCore users

• Open /EFI/OC/config.plist and change the following code:

```
<key>Arch</key>
   <string>x86_64</string>
   <key>BundlePath</key>
   <string>AirportItlwm.kext</string>
   <key>Comment</key>
   <string>Intel Wi-Fi driver</string>
   <key>Enabled</key>
   <true/>
   <key>ExecutablePath</key>
   <string>Contents/MacOS/AirportItlwm</string>
   <key>MaxKernel</key>
   <string></string>
   <key>MinKernel
   <string>19.0.0</string>
   <key>PlistPath</key>
   <string>Contents/Info.plist</string>
</dict>
```

• Also, change your SecureBootModel to allow loading immutablekernel. If your macOS version >= macOS11 (KernelCollection), you don't need to do the following steps:

• If the above method does not work, reverse changes on DmgLoading and SecureBootModel, then force loading IO80211Family. Open /EFI/OC/config.plist and change the following code:

• For macOS10.13 users, you also need to force load corecapture.kext. Add the following code before the IO80211Family.kext entry:

```
<dict>
    <key>Arch</key>
    <string>Any</string>
    <key>BundlePath</key>
    <string>System/Library/Extensions/corecapture.kext</string>
    <key>Comment</key>
    <string></string>
    <key>Enabled</key>
    <true/>
    <key>Identifier</key>
    <string>com.apple.driver.corecapture</string>
    <key>ExecutablePath
    <string>Contents/MacOS/corecapture</string>
    <key>MaxKernel</key>
    <string>17.99.99</string>
    <key>MinKernel
    <string>17.0.0</string>
    <key>PlistPath</key>
    <string>Contents/Info.plist</string>
</dict>
```

Discussion

- If you have questions about the driver, please discuss them on https://gitter.im/OpenIntelWireless/itlwm
- If you want to report bugs, please use https://github.com/OpenIntelWireless/itlwm/issues

Credits

• Thanks to OpenIntelWireless for providing AirportItlwm, HeliPort, and itlwm.