Compiling the ESP8266 Port of MicroPython from the current documentation at https://github.com/pfalcon/esp-open-sdk

Valid October 15th 2021

Part I – Create a VitrtualBox VM of Ubuntu 14.04

This is pretty straightforward and well documented.

Part II – Build the esp_open_sdk Toolchain in the the new VM

Before executing `make` in the /esp_open_sdk directory, you need to edit two files…

121-isl.sh

/esp-open-sdk/crosstool-ng/scripts/build/companion_libs/121-isl.sh

This describes the line you will need to change...

https://github.com/jcmvbkbc/crosstool-NG/blob/37b07f6fbea2e5d23434f7e91614528f839db056/scripts/build/companion_libs/121-isl.sh#L17

You have to change it to a URL that is working. I found a copy of the file and uploaded it to my own web space. You are welcome to use it. `https://wezensky.no-ip.org/shared/fwm`

the second file is

expat.in

/esp-open-sdk_crosstool-ng_config_companion_libs_expat.in

All the references to

version 2.1.0 should be changed to 2.4.1…

for instance…

https://github.com/jcmvbkbc/crosstool-NG/blob/37b07f6fbea2e5d23434f7e91614528f839db056/config/companion_libs/expat.in#L9

Part III – Build MicroPython for the ESP8266

Follow the documentation. It is accurate.

I will post complete instruction shortly.