

ESP32 - Setup

Install toolchain

```
mkdir ~/esp32
cd ~/esp32
wget https://dl.espressif.com/dl/xtensa-esp32-elf-osx-1.22.0-80-g6c4433a-5.2.0.tar.gz
tar xvfz xtensa-esp32-elf-osx-1.22.0-80-g6c4433a-5.2.0.tar.gz
rm *.gz
```

Add toolchain to your path

```
vi ~/.profile
```

```
export PATH=$PATH:$HOME/esp32/xtensa-esp32-elf/bin
```

Install ESP-IDF

```
cd ~/esp32
git clone -b v3.1.1 --recursive https://github.com/espressif/esp-idf.git
```

Add IDF_PATH environment variable

```
vi ~/.profile
```

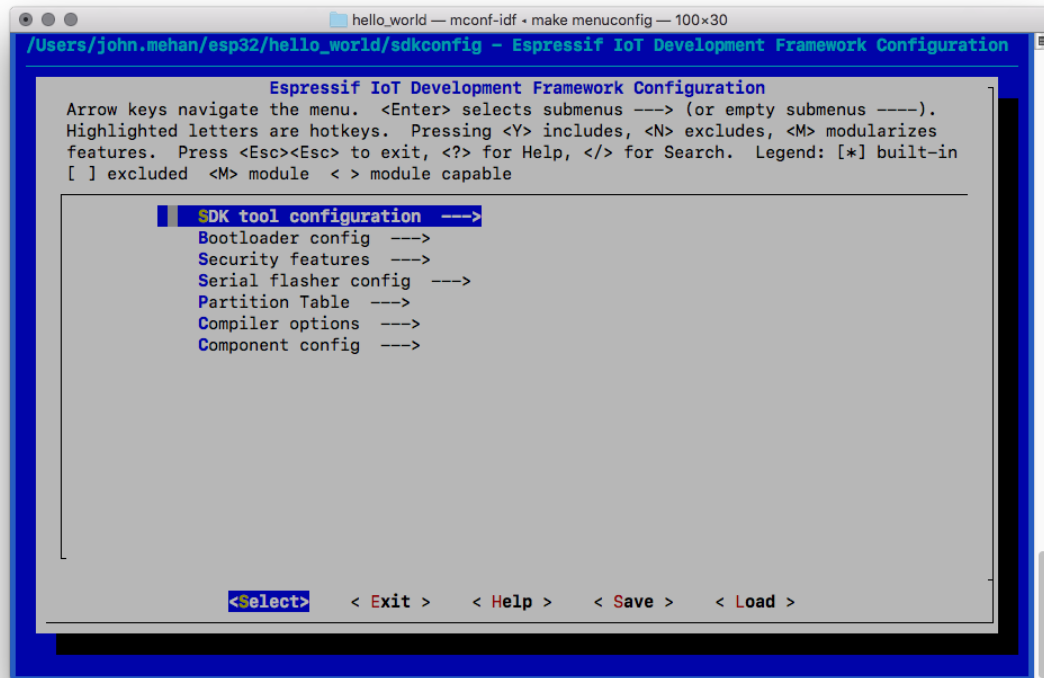
```
export IDF_PATH=~/esp32/esp-idf
```

Configure

We will configure using the hello_world example

```
cd ~/esp32
cp -r $IDF_PATH/examples/get-started/hello_world .
cd ~/esp32/hello_world
make menuconfig
```

If previous steps have been done correctly, the following menu will be displayed:



Reference

Reference	URL
Setup Toolchain on Mac	https://docs.espressif.com/projects/esp-idf/en/stable/get-started/macos-setup.html
Get Started - ESP-IDF	https://docs.espressif.com/projects/esp-idf/en/stable/get-started/index.html#get-started-get-esp-idf
GCC Xtensa Options	https://gcc.gnu.org/onlinedocs/gcc/Xtensa-Options.html