## Mac OS下STM32Cube生成VSCode匹配的Python脚本

- 使用方法: 在STM32CUBE生成的GCC工程目录下(Makefile所在目录)执行该脚本,生成VSCode需要的c\_cpp\_properties.json文件。
- 需要先安装好编译器: arm-none-eabi-gcc; 调试器插件: cortex-debug,
- 实例配置lanch.json如下:

```
{
    // 使用 IntelliSense 了解相关属性。
    // 悬停以查看现有属性的描述。
    // 欲了解更多信息,请访问: https://go.microsoft.com/fwlink/?linkid=8303
87
    "version": "0.2.0",
    "configurations": [
           "cwd": "${workspaceRoot}",
           "executable": "${workspaceRoot}/build/TEST_VSCODE.elf",
           "servertype": "jlink",
           "type": "cortex-debug",
           "request": "launch",
           "name": "Debug (J-Link)",
           "device": "STM32F103RB",
           "interface": "swd",
           "ipAddress": null,
           "serialNumber": null,
}
```

## • Python脚本

```
#!/usr/bin/env python
# encoding: utf-8

"""

@version: v1.0
@author: momowang
@license: Apache Licence
@file: addHeder.py
```

```
@time: 2018/9/8 下午2:41
import os, re, json
path = os.getcwd()
# 获取工具链绝对路径:arm none_eabi_gcc
def toolChainsPath():
    pipeline = os.popen("which arm-none-eabi-gcc")
    # print(pipeline.read())
    return pipeline.read()
# 读取Makefile的文件,获取到头文件路径
def getConfigInfo():
    # print("当前文件目录是:" + path)
    headerArry = []
    defineArry=[]
    file = None
    try:
        file = open(path+"/Makefile","r")
       buff = file.read()
       # 查找两字符串之间的字符串,并替换删除多余部分
        pattern = re.compile("# C includes"+'(.*?)' + "# compile gcc fl
ags", re.S)
       m = pattern.findall(buff)[0][17:].replace("\\",'').replace(" ",
'').replace("-I",'')
        # 拼接"${workspaceFolder}/"
       headerArry = ["${workspaceFolder}/" + x for x in m.splitlines()
[:-1]]
       headerArry.append("${workspaceFolder}/")
       if toolChainsPath().strip():
           headerArry.append(toolChainsPath().strip())
        pattern = re.compile("# C defines"+'(.*?)' + "# AS includes",re
.S)
       defineArry = pattern.findall(buff)[0][11:].replace("\\",'').rep
lace(" ",'').replace("-D",'').splitlines()[1:-2]
    except:
        print("出了点小问题,未找到Makefile文件或打开失败!!!")
    finally:
       if file:
          file.close()
    return headerArry,defineArry
def writeJsonConfig(version=4):
    filePath = path + "/.vscode/c_cpp_properties.json"
    if not filePath:
        print("还没有添加c_cpp_properties.json文件")
        return None
    data = ""
```