在Makefile中 `SRC_C` 应该在Makefile-cfg前指定，否则是无效的!

比如

in Hal/6220/cpu/cortex_r4-r1p3/src/Makefile

```
1.    # set the relative path to the project root dir
2.    PROJECTDIR  :=  ../../../../..
3.
4.    # include global project config
5.    include $(PROJECTDIR)/Makefile-cfg
6.
7.    # include local module project config
8.    include $(PROJECTDIR)/Hal/$(ARCH)/Makefile-cfg
9.
10.   # include the global rule set
11.   include $(PROJECTDIR)/Makefile-rules
12.
13.   SRC_C   =                           \
14.       cortex_r4.o
```

There are 2 files in Hal/6220/cpu/cortex_r4-r1p3/src directory

- cortex_r4.c

- build_mpu.c

上面的Makefile并不会只编译cortex_r4.c，而是build_mpu.o也生成了！

root cause如下

in Makefile-rules

```
1.    ifndef  SRC_C
2.    SRC_C   =   $(wildcard *.c)
3.    endif   # SRC_C
4.
5.    ifndef  SRC_ASM
6.    SRC_ASM =   $(wildcard *_$(TOOLTYPE).asm)
7.    endif   # SRC_ASM
8.
9.    ifndef  SRC_S
10.   SRC_S   =   $(wildcard *_$(TOOLTYPE).s)
11.   endif   # SRC_S
```

即如果没有定义SRC_C，则SRC_C会include当前目录下所有.c files.

而在上面的Makefile中

```
1.    include $(PROJECTDIR)/Makefile-rules
2.
3.    SRC_C   =                           \
4.       cortex_r4.o
```

Makefile-rules在SRC_C之前。

所以正确的方式应该如下

```
1.   # set the relative path to the project root dir
2.   PROJECTDIR  :=  ../../../../..
3.
4.   # include global project config
5.   include $(PROJECTDIR)/Makefile-cfg
6.
7.   # include local module project config
8.   include $(PROJECTDIR)/Hal/$(ARCH)/Makefile-cfg
9.
10.  SRC_C   =                            \
11.      cortex_r4.o
12.
13.  # include the global rule set
14.  include $(PROJECTDIR)/Makefile-rules
```