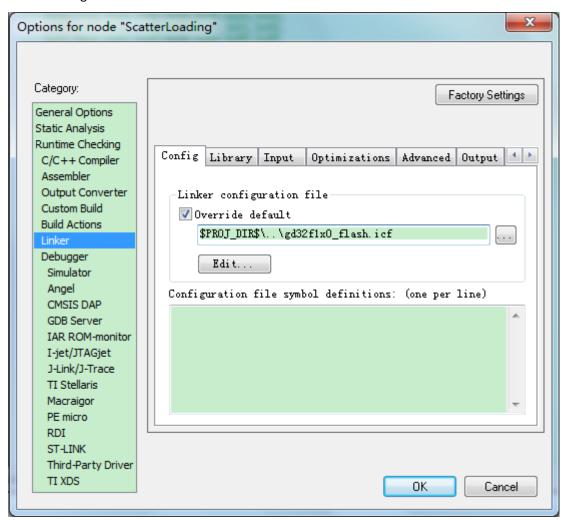
## 1. Specify the.C file to the flash specified location

This project will load the hw config.c file at the address 0x08002000

1. IAR configration:



In the linker config, select the Override default, and choose our own .icf file.

In this way, the IAR compiler will link to the gd32f1x0\_flash.icf file

```
Open the gd32f1x0_flash.icf file in the IAR project, modify as follows:

/*###ICF### Section handled by ICF editor, don't touch! ****/

/*-Editor annotation file-*/

/* IcfEditorFile="$TOOLKIT_DIR$\config\ide\IcfEditor\cortex_v1_0.xml" */

/*-Specials-*/
define symbol __ICFEDIT_intvec_start__ = 0x08000000;

/*-Memory Regions-*/
define symbol __ICFEDIT_region_ROM_start__ = 0x08000000;
define symbol __ICFEDIT_region_ROM_end__ = 0x0800FFFF;
define symbol __ICFEDIT_region_ROM1_start__ = 0x08002000;
define symbol __ICFEDIT_region_ROM1_end__ = 0x0800FFFF;
define symbol __ICFEDIT_region_ROM1_end__ = 0x0800FFFF;
```

```
define symbol __ICFEDIT_region_RAM_end__
                                              = 0x20017FFF;
/*-Sizes-*/
define symbol __ICFEDIT_size_cstack__ = 0x400;
define symbol ICFEDIT size heap
/**** End of ICF editor section. ###ICF###*/
define memory mem with size = 4G;
define region ROM region
                                  = mem:[from ICFEDIT region ROM start
                                                                                       to
__ICFEDIT_region_ROM_end__];
define region ROM1 region
                                  = mem:[from ICFEDIT region ROM1 start
                                                                                        to
__ICFEDIT_region_ROM1_end__];
define region RAM_region
                                  = mem:[from __ICFEDIT_region_RAM_start__
                                                                                        to
__ICFEDIT_region_RAM_end__];
                       with alignment = 8, size = __ICFEDIT_size_cstack__
define block CSTACK
                                                                         { }:
define block HEAP
                       with alignment = 8, size = __ICFEDIT_size_heap__
                                                                          { };
initialize by copy { readwrite };
do not initialize { section .noinit };
place at address mem:__ICFEDIT_intvec_start__ { readonly section .intvec };
/* load the hw config.o file at the address 0x08002000*/
place at address mem:0x08020000 { section .text object hw_config.o };
/*load section .funflash at the address 0x08002000*/
place at address mem:0x0800F000 { readonly section .funflash};
place in ROM_region
                      { readonly };
place in RAM_region
                      { readwrite,
                           block CSTACK, block HEAP };
```

The red part is what I add, the other part should be the same as your original file.

## 2. The function is loaded to the flash specified location

In this project, the function delay in main.c is loaded in the starting position of 0x0800F000.

- (1) Add "place at address mem: 0x0800F000 {readonly section .funflash};" in gd32f1x0\_flash.icf file
- (2) In the definition of the function add "@. funflash"

```
void delay(void) @".funflash"
{
   for(i=0;i<0xffff;i++);
}</pre>
```

## 3. Load an const array into the specified location

In this project, the constdata (const can not be omitted) is loaded to 0x08003000

## 4. The results as follows

In the project directory \Debug\List, find the ScatterLoading.map file, open, as follows:

	-	0 <b>x</b> 08000704	0 <b>x</b> 514	
"A2": .text		0x08002000 0x0800200a	0xa 0xa 0xa	hw_config.o [1]
Absolute sections: .rodata	const -	0x08003000 0x0800b4f0	0x84f0 0x84f0 0x84f0	const-data.o [1]
"A3": .funflash	ro code	0x0800f000	0x10 0x10	main.o [1]
		0x0800f010	0x10	